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POLITY AND GOVERNANCE

Judges (Salaries and Conditions of	In News: Government has introduced a bill that proposes to amend the High Court Judges (Salaries and Condition of Service) Act and the Supreme Court Judges (Salaries and Condition of Service) Act. Key Takeaways
Service) Amendment Bill, 2021	 According to the bill, in 2009 the two laws were amended to provide that every retired judge or after his death, the family, as the case may be, will be entitled to an additional quantum of pension or family pension. Accordingly, the additional quantum of pension to retired judges of the high courts and the Supreme Court is being sanctioned on completing the age of 80 years, 85 years, 90 years, 95 years and 100 years, as the case may be. The bill seeks to bring clarity from when Supreme Court and high court judges are entitled to an additional quantum of pension or family pension on attaining a certain age. The additional quantum of pension to a retired judge was earlier calculated from the first day of the month in which he completes 80/90/95/100 years the and not from the first day of his entering the age. However, Gauhati HC and Madhya Pradesh HC reiterated that the calculation of pension must start from first day of his entering the age. To clarify the matter and to align the provisions of law to the High Court judgements, the government has brought in this amendment bill.
6 lakh Indians	In News: More than six lakh Indians renounced citizenship in the past five years, the Ministry of
renounced	Home Affairs (MHA) informed the Lok Sabha on Tuesday.
citizenship	Key Takeaways
	 Number of Indians who gave up citizenship stood at
	Year Number of Indians giving up citizenship
	2017 1,33,049
	2018 1,34,561
	2019 1,44,017
	2020 85,248
	 2021 (till Sep 30) 1,11,287 The reason for a large number of Indians surrendering their citizenship was not stated
	 in the reply by Minister of Home Affairs. In 2018, the MHA had revised the form for declaration of renunciation of citizenship, which, for the first time, included a column on "circumstances/reasons for renouncing Indian citizenship". Recently, the MHA had simplified the process and provisions were made for the applicants to upload documents online and an upper limit of 60 days was fixed for the renunciation process to be completed. According to a Global Wealth Migration Review report, in 2019, India came second only to China when it came to high net worth individuals (HNIs) leaving the country. As many as 7,000 HNIs left India in 2019. Government added that in the period 2016-20, 10,645 foreigners applied for Indian citizenship, of which more than 7,782 were from Pakistan and 452 were stateless. During the same period, 4,177 persons were granted Indian citizenship but the country-wise breakup was not provided.

	• Government also reiterated that it has not taken any decision to prepare the National Register of Indian Citizens (NRIC) at the national level.
Assisted Reproductive Technology (Regulation)	In News: The Lok Sabha passed the Assisted Reproductive Technology (Regulation) Bill, 2020, that proposes the establishment of a national registry and registration authority for all clinics and medical professionals serving in the field. Key Takeaways
(Regulation) Bill, 2020	 The ART bill seeks to set minimum standards and codes of conduct for fertility clinics and egg/sperm banks.
	 The bill provides for the "safe and ethical practice of assisted reproductive technology services", including egg or sperm donation, in-vitro fertilisation (IVF), intrauterine insemination (IUI), and gestational surrogacy. The bill also aims to introduce protections for egg donors, gestational surrogates, and children conceived through ART services. Offences under the bill include Clinics offering sex selection Abandoning or exploiting children born through ART Selling, buying, or importing of human embryos, Exploiting the couple or donors concerned in any form. Proposed jail terms for violations range from five to 12 years, and fines from Rs 5 lakh to Rs 25 lakh.
Pragyata	In News: Keeping in view the availability of digital infrastructure PRAGYATA Guidelines on
Guidelines	Digital Education had been issued to all State governments as well as Schools directly under
	Central Government as advice.
	 The guidelines brief on various modes of digital education including online mode that depends more on availability of internet, partially online mode that utilizes the blended approach of digital technology and other offline activities, and offline mode that utilizes television and radio as a major medium of instruction of education. This information was given by the Union Minister of Education, Shri Dharmendra
	Pradhan in a written reply in the Rajya Sabha.
UNLAWFUL ACTIVITIES (PREVENTION)	In News: Putting a person accused under the Unlawful Activities (Prevention) Act behind bars for an unduly long time with no progress in the trial or appeal process is a violation of his or her fundamental right, the Supreme Court has held in a judgment.
ACT	 While deprivation of personal liberty for some period may not be avoidable, the period of deprivation pending trial/appeal cannot be unduly long.
	• At the same time, timely delivery of justice is part of human rights and denial of speedy justice is a threat to public confidence in the administration of justice.
	 Once it is known that a timely trial is not possible and the accused has already suffered a significant period of incarceration, the courts are "obligated" to enlarge an undertrial on bail.
	 The court noted that cases investigated by the National Investigation Agency should be tried on a day-to-day basis and have priority over other cases.
Private Member's Bill	In News: Senior Congress leader Shashi Tharoor moved a private member's Bill in the Lok Sabha seeking to establish permanent Benches of High Courts in State capitals. Key Takeaways
	 The private member's Bill was moved in the Lok Sabha after a gap of nearly two years. "Establishment of permanent benches of high courts at state capitals Bill" had been pending since 2019.
	 As many as 153 private members' Bills were introduced in the Lok Sabha on Friday, including one that sought compulsory teaching of the Bhagavad Gita in educational institutions.
	Private Member's Bill

	 Any Member of Parliament (MP) who is not a minister is referred to as a private
	member.
	 The purpose of private member's bill is to draw the government's attention to what individual MPs see as issues and gaps in the existing legal framework, which require logiclative intervention.
	legislative intervention.
	 Its drafting is the responsibility of the member concerned.
	 Its introduction in the House requires one month's notice. The government hills can be introduced and discussed on any day, private member
	 The government bills can be introduced and discussed on any day, private member bills can be introduced and discussed only on Fridays.
	 Its rejection by the House has no implication on the parliamentary confidence in th government or its resignation.
	 Upon conclusion of the discussion, the member piloting the bill can either withdraw
	on the request of the minister concerned, or he may choose to press ahead with i passage.
	 The last time a private member's bill was passed by both Houses was in 1970. It was the
	Supreme Court (Enlargement of Criminal Appellate Jurisdiction) Bill, 1968.
Culture	In News: Culture mapping of 80 villages associated with noted personalities in history,
Mapping of 80	particular the freedom movement, unique crafts and festivals has been started as a pilot proje
Villages	by Union Culture Ministry.
	Key Takeaways
	• From Sempore in Kashmir to Kanjirapally in Kerala, villages with a connection to the
	freedom movement as well as those with their own art practices have been selected for
	the project, bein <mark>g conducted by the Indira Gandhi National Centre for the Ar</mark> (IGNCA).
	• The project would lead to a "national register and interactive database of artists ar
	art practices from the villages of India". Each artist would be given a unique ID and a e-commerce platform set up.
	 The work under the mission involves coordinating the data collection through grour and field surveys conducted on the basis of detailed formats and questionnaires, mobi application, interactive web-portal and an over-the-top (OTT) platform to showcas ethnographic documentaries/ cultural events/ festival/ melas etc. of villages.
	Some of the villages on the list
	 From Ladakh, the pilot project included Choglamsar and Wanla villages, known for woo carving.
	 Sempore or Pandrenthan in Budgam district of Jammu and Kashmir that is associate with 14th Century mystic Lal Ded or Lalleshwari.
	 Khatkar Kalan village in Punjab, which has a memorial of Bhagat Singh.
	 Reni village of Uttarakhand, where the Chipko movement started.
	 Kathputli Colony in Delhi, known for the "migrant kathputli artists", are also on the list
	• Two villages in Tamil Nadu — Ettayapuram (the birthplace of poet Subramania Bharath
	and Thiruchigadi (a village of "women potters ") — are also on the list.
Statutory Bail	In News: The National Investigation Agency (NIA) has approached the Supreme Court against Bombay High Court order granting bail to advocate and activist Sudha Bharadwaj.
	 In its bail order, the court has asked the NIA Court to decide the conditions for he release on December 8.
	 While she was given 'default bail', eight others were denied the benefit in the sam case.
	• The case highlights the nuances involved in a court determining the circumstances which statutory bail is granted or denied, even though it is generally considered "a indefeasible right".
	What is Statutory bail?

	 Default bail, also known as statutory bail, is a right to bail that accrues when the polifail to complete investigation within a specified period in respect of a person in judic custody. This is enshrined in Section 167(2) of the Code of Criminal Procedure where it is r possible for the police to complete an investigation in 24 hours, the police produce t suspect in court and seek orders for either police or judicial custody. This section concerns the total period up to which a person may be remanded in custo prior to filing of charge sheet. For most offences, the police have 60 days to complete the investigation and file a fir report before the court. However, where the offence attracts death sentence or I
	 In other words, a magistrate cannot authorise a person's judicial remand beyond t 60-or 90-day limit. At the end of this period, if the investigation is not complete, t court shall release the person "if he is prepared to and does furnish bail".
National	Key takeaways
Institute of Pharmaceutical Education And Research (Amendment)	 The Bill seeks to amend the original act of 1998 to declare six additional Nation Institute of Pharmaceutical Education and Research (NIPERs) as Institutions National Importance. These institutes are located in Ahmedabad, Hajipur, Hyderabad, Kolkata, Guwah and Raebareli.
Bill , 2021	 The Bill also provides for a Council to coordinate the activities among the institut to ensure development of pharmaceutical education and research. The NIPERs are for strengthening and enhancing research in the Pharma sector,
	the country.
	 What is the Meaning of the Institute of National Importance? The Central Government grants the status of 'Institute of National Importance' premier higher educational institutions in India through an act of the Parliament. Such an institute "serves as a pivotal player in developing highly skilled personnel with the specified region of the country/state". Such institutes get special funding and recognition from the Government of India. It is observed that generally, such INIs operate outside the University Grant Commission's embit and enjoy entotes and enjoy entotes of several se
	 Commission's ambit and enjoy certain advantages related to taxes. Ministry: Ministry of Education
	 Some of the benefits that INIs enjoy are listed below:
	Functional autonomy
	 Increased funding.
	Better quality of education.
	 Faster decision-making capabilities.
	Minimal interference from the political executive.
Citizenship (Amendment)	Context Two years after the <u>Citizenship (Amendment) Act, 2019 (CAA)</u> was passed Parliament, the Union Home Ministry is yet to notify the rules governing the Act.
Act, 2019	 The legislation cannot be implemented without notifying the rules.
(CAA)	What is the Citizenship (Amendment) Act?
	• Citizenship (Amendment) Act, 2019 was passed by the Parliament of India on
	 December 2019. It amended the Citizenship Act, 1955 by providing a pathway to Indian citizenship for persecuted religious minorities from Afghanistan, Bangladesh and Pakistan who a Hindus, Sikhs, Buddhists, Jains, Parsis or Christians, and arrived in India before the end of December 2014.
	 of December 2014. The law does not grant such eligibility to Muslims from these Muslim-majority countrie The act was the first time that religion had been overtly used as a criterion for citizensh under Indian law and attracted global criticism.
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SAMPANN	In News: Over 1 lakh people getting pension directly into their bank accounts through
project	SAMPANN project
	SAMPANN – 'System for Accounting and Management of Pension' is an ambitious project of
	Government of India being implemented by Controller General of Communication Accounts,
	Department of Telecommunications, Ministry of Communications.
	• A seamless online pension processing and payment system for Department of
	Telecommunications pensioners
	 Provides direct credit of pension into the bank accounts of pensioners
	 Helped the Department in faster settlement of pension cases, improved
	reconciliation/auditing and ease of accounting.
	 Instrumental in settling close to 76000 BSNL Voluntary Retirement Scheme 2019 cases
	in a short span of 6 months.
	 A system with a flexible design which enables it to accommodate ever expanding
	requirements
	Has improved the service delivery to pensioners by providing a single window setup
	ensuring the following benefits:
	 Timely settlement of pension cases
	 Provision of e-Pension Payment Order
	 Login for each pensioner enables access to key information like payment history
	 Online submission of grievances and timely SMS alerts
Model Tenancy	Model Tenancy Act aims to promote rental housing by balancing and protecting the rights and
Act	interests of both the tenants and landlords by regulating renting of premises in an efficient and
	transparent manner.
	Why this Act?
	• Restrictive Laws: As per Census 2011, more than 1 crore houses were lying vacant in
	urban areas. The existing rent control laws are restricting the growth of rental housing
	and discourage owners from renting out their vacant houses due to fear of
	repossession.
	• Large scale informalisation in sector: One of the potential measures to unlock the
	vacant house is to bringing transparency and accountability in the existing system of
	renting of premises and to balance the interests of both the property owner and tenant
	in a judicious manner.
	Lack of Uniformity: Since it is a state subject, states have enacted their laws and it differs
	from one state to another.
	Housing Poverty: 2013 report by a Task Force for Rental Housing held that affordable
	rental housing "addresses the issues of the underprivileged and inclusive growth, in an
	even more direct manner than affordable ownership housing". Model Tenancy Act helps
	bring investment in the sector as the sector provides better safeguards.
	Where it applies
	 After enforcement of this Act, no person can let or take on rent any premises except by
	an agreement in writing.
	The new Act will be applicable prospectively and will not affect existing tenancies.
	• The Act seeks to cover urban and as well as rural areas.
	What's new in Model Tenancy Act?
	Dedicated Institutions: States will set up a grievance redressal mechanism comprising of Baut Authority, Baut Court and Baut Tribunal to provide fact to all mechanism comprising
	of Rent Authority, Rent Court and Rent Tribunal to provide fast-track resolution of
	disputes.
	Time Bound Resolution: Disposal of a complaint/appeal by the Rent Court and the Rent
	Tribunal will be mandatory within 60 days.
	No monetary ceiling on rents: At present, in many old properties let out under archaic
	rent-control Acts, such ceilings have left landlords stuck with outdated rent amounts.
	This will be done away with in new model act.

	 A digital platform will be set up in the local vernacular language or the language of the State/Union Territory for submitting tenancy agreement and other documents. Rent Authority will keep a tab on these agreements. Proper Documentation: Verbal agreements will be out of the picture, as the MTA mandates written agreement for all new tenancies (prospective) which is to be submitted to Rent Authority. Clarity on Subletting: Subletting of premises can only be done with the prior consent of the landlord, and no structural change can be done by the tenant without the written consent of the landlord. Guidelines on Security Deposit: The security deposit to be paid by the tenant should not exceed two months' rent for residential property (six months' rent in case of non-residential property) Provision for eviction: The Rent Court can allow repossession by the landlord if the tenant misuses the premises, after being served a notice by the landowner. Misuse of the premises, as defined, includes public nuisance, damage, or its use for "immoral or
	illegal purposes".
	Merits of MTA
	 Formalise the shadow market of rental housing Protects interests of both tenant and owner
	 Frotects interests of both tenant and owner Faster resolution of disputes
	Unlock vacant properties
	Increase rental yields
	Ease/remove exploitative practices
	Reduce procedural barriers in registration
	Increase transparency and discipline.
	 Attracts private investment into the sector. Note: Land and Colonization are State subjects.
'Beti Bachao,	Context The Parliamentary Committee on Empowerment of Women has noted in its report that
Beti Padhao '	The Government spent 80% of the funds under the 'Beti Bachao, Beti Padhao ' (BBBP) scheme
(BBBP) scheme	on media campaigns.
	It has recommended that it must now revisit this strategy and invest in measurable
	outcomes in health and education for girls.
	The total utilisation under the scheme was also poor.
	 Advocacy and media campaigns include television publicity, outdoor and print media, SMS compaigns radia casts and computitive accompany through outlibilities was
	SMS campaigns, radio spots and community engagement through exhibition vans. What is 'Beti Bachao, Beti Padhao' (BBBP) scheme?
	The scheme was launched by Indian Prime Minister in January 2015
	 Aim: To address sex-selective abortion and the declining child sex ratio, which was at
	918 girls for every 1,000 boys in 2011.
	The programme is being implemented across 405 districts.
	• There is a clearly laid down formula for utilisation of funds. Rs. 50 lakh a year is
	earmarked a district for utilisation under six different components.
	 Of this, 16% is for inter-sectoral consultation or capacity-building
	 50% for innovation or awareness generation activities
	 6% for monitoring and evaluation
	 10% for sectoral interventions in health
	 10% for sectoral interventions in health 10% for sectoral interventions in education
Section 1244	 10% for sectoral interventions in health 10% for sectoral interventions in education 8% as flexi funds
Section 124A	 10% for sectoral interventions in health 10% for sectoral interventions in education 8% as flexi funds Context Recently, Union Law Minister replied in Parliament that there is no proposal to scrap
Section 124A misuse	 10% for sectoral interventions in health 10% for sectoral interventions in education 8% as flexi funds

	What is Section 124A IPC?
	 It defines sedition as an offence committed when "any person by words, either spoken or written, or by signs, or by visible representation, or otherwise, brings or attempts to bring into hatred or contempt, or excites or attempts to excite disaffection towards the government established by law in India".
	 Disaffection includes disloyalty and all feelings of enmity.
	 However, comments without exciting or attempting to excite hatred, contempt or disaffection, will not constitute an offence under this section. Historical Background of Sedition Law
	 Sedition laws were enacted in 17th century England when lawmakers believed that only good opinions of the government should survive.
	 The law was originally drafted in 1837 by Thomas Macaulay. Section 124A was inserted in 1870 by an amendment introduced by Sir James Stephen when it felt the need for a specific section to deal with the offence.
	 It was one of the many draconian laws enacted to stifle any voices of dissent at that time
National Helpline Against Atrocities (NHAA)	In News: The Ministry of Social Justice and Empowerment is scheduled to launch a National Helpline Against Atrocities (NHAA) on 13th Dec 2021 with an aim to ensure proper implementation of the Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities){PoA} Act, 1989 which was enacted with a view to, inter-alia, preventing atrocities on members of Scheduled Castes (SCs) and Scheduled Tribes (STs).
(The NHAA will be available round the clock on toll-free number 14566 across the country. It can be accessed by making a voice call /VOIP either from a mobile or land line number of any Telecom Operator across the country. This service will be available in Hindi, English and regional language of the State/UTs. Its Mobile application will also be available.
	 The objective of the helpline is to build informed awareness about the provisions of the Law that are aimed at ending discrimination and provide protection to all. The system will ensure that every complaint is registered as an FIR, relief is provided, all registered complaints are investigated and all chargesheets filed are prosecuted in the Courts for decision - all within the given timelines in the Act.
LokpalOnline	Context Chairperson, Lokpal of India, Justice Pinaki Chandra Ghose recently inaugurated a digital Platform for Management of Complaints called 'LokpalOnline'
	 It can be accessed by all citizens of the country and complaints can be filed from anywhere, anytime.
	Key features
	 LokpalOnline is an end-to-end digital solution for the management of complaints against public servants filed under the Lokpal and Lokayuktas Act, 2013.
	 Convenience to complainants for filing complaint online from anywhere anytime Information to the complainant about action on complaint at every stage through e- mails and SMS
	Facility to complainant to ascertain status of complaint at anytime
	 Identity of the complaint is kept confidential
	 The CVC, CBI and other inquiry agencies can upload their reports directly on 'LokpalOnline' platform.
	 Reminders to inquiry agencies through e-mails and SMS
	Generation of analytical reports as per requirement
	Do you know?
	 Lokpal of India, has been established under the Lokpal and Lokayuktas Act, 2013 to inquire and investigate allegations of corruption against public functionaries falling within the scope and ambit of this Act.

 At present complaints sent by post, e-mail or delivered by hand are entertained by the Lokpal of India.
 al Context The Supreme Court directed States to take immediate steps to identify and rescue homeless children hit by the COVID-19 pandemic. The court said their details should be uploaded on the National Commission for the Protection of Child Rights (NCPCR) portal 'Bal Swaraj. The court said the process of collecting the information with regard to the social background of the children and identification of benefits under the individual care plar had to be conducted by the Child Welfare Committees under the Juvenile Justice law. What is Bal Swaraj Portal? Created by: The National Commission for Protection of Child Rights (NCPCR) Significance: NCPCR has developed it as part of its role of a monitoring authority under section 109 of the Juvenile Justice Act, 2015 and to address the growing problem o Children being affected by COVID-19. Objective: Online tracking and Real-time monitoring of Children who have lost both parents/either of the parents during COVID-19 and are in need of care and protection Working: It will track children affected by COVID-19 right from the production o children before the Child Welfare Committee (CWC) to the restoration of the children to their parent/guardian/relative and its subsequent follow-up.
 About: Restructured in May 2018 earlier known as MsDP – Implemented for the benefit of the people from all sections of the society in identified Minority Concentration Areas for creation of assets in education, skill and health sectors. Provide better socio economic infrastructure facilities to the minority communities particularly in the field of education, health & skill development as compared to the present situation, which would further lead to lessening of the gap between the national average and the minority communities with regard to backwardness parameters. The flexibility introduced in the programme will enable addressing important issues that would result in speedier implementation leading to greater inclusiveness of the minority communities. The criteria for identification of Minority Concentration Towns and Clusters of Villages have been rationalized by lowering the population percentage criteria of Minority Communities and Socio-economic parameters were taken up as MCTs. Now, the Towns which were found backward in either or both of the criteria have beer taken up as MCT. Earlier only those Cluster of Villages which were having at-least 50% population of Minority Community were taken. Now the population criterion has beer lowered to 25%.
 Context A MP from Ladakh belonging to BJP party has demanded that the region be included in the Sixth Schedule of the Constitution to safeguard land, employment, and cultural identity of the local population. What is Sixth Schedule? The Sixth Schedule under Article 244 provides for the formation of autonomous administrative divisions — Autonomous District Councils (ADCs) — that have some
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	• ADCs have up to 30 members with a term of five years, and can make laws, rules and regulations with regard to land, forest, water, agriculture, social customs and mining, etc.
	• The Bodoland Territorial Council in Assam is an exception with more than 40 members and the right to make laws on 39 issues.
	 The Sixth Schedule applies to the Northeastern states of Assam, Meghalaya, Mizoram (three Councils each), and Tripura (one Council). Why does Ladakh want to be part of the Sixth Schedule?
	 Why does Ladakh want to be part of the Sixth Schedule? The UT has two Hill councils in Leh and Kargil, but neither is under the Sixth Schedule. Their powers are limited to collection of some local taxes such as parking fees and allotment and use of land vested by the Centre.
Vanniyar quota law	Context The Supreme Court has held that admissions to higher education institutions and appointments to Tamil Nadu's government jobs made this year under the Vanniyar quota would not be disturbed.
	• However, SC has barred fresh appointments and admissions until February 15 next year. What is Vanniyar Movement?
	• Vanniyars are one of the largest and most consolidated backward communities in Tamil Nadu.
	• They had raised massive protests in the mid-1980s demanding 20% reservation in the state, and 2% in central services.
	 During agitation from September 17 to 23, 1987, many protesters were killed. Split of OBC quota: In 1989, the OBC quota was split into two: Backward Castes and Most Backward Castes.
	• Vanniyars were categorised among the MBCs with 107 other communities, with 20% reservation.
	• Three decades later, the state government passed a Bill, and the current government has implemented it with a Government Order ensuring 10.5% reservation for Vanniyars within the 20% MBC quota.
JCP on the Personal Data	Context The Joint Committee of Parliament (JCP) on the Personal Data Protection Bill tabled its report in both Houses.
Protection Bill	 Major recommendations Non-Personal Too: The nature of the Bill itself is for inclusion of non-personal data within the larger umbrella. All issues under the new legislation will be dealt with by a single Data Protection Authority (DPA) instead of separate ones for personal and non-personal.
	• Transition Period: To ensure that all such data aggregators get ample time to comply with the rules under the new Bill, the JCP suggested that up to 24 months be given from the date of notification of the Act.
	 Social Media Liability: Social media platforms that do not act as intermediaries should be treated as publishers, and therefore be held liable for the content they host. Penalty: A fine of up to Rs 15 crore or 4% of the total global turnover of the firm for data breaches, and a jail term of up to 3 years if de-identified data is re-identified. Timely Alert: In case of any data breach, the data aggregator must notify the DPA within 72 hours of becoming aware of it.
Election Laws (Amendment) Bill, 2021	Context The Election Laws (Amendment) Bill, 2021 that seeks to link electoral rolls to Aadhaar number has been listed for introduction in the Lok Sabha. About the Bill
	 The Bill allows electoral registration officers to ask for Aadhaar numbers of applicants wanting to register as voters to establish the identity of the applicant. It also seeks to allow the officers to ask for the number from "persons already included"
	in the electoral roll.

documents to establish identity. Various amendments to Representation of People Act, 1950 Section 23 will be amended to allow linking of the roll data with the Aadhaar ecosystem. Amendment to Section 14 will allow four "qualifying" dates for eligible people to register as voters. As of now, January 1 of every year is the sole qualifying date. Standing committee Context The Lok Sabha has sent the Bill which seeks to raise the age of marriage for women to 21 to a standing committee: virth are Parliamentary Committee is a committee which is appointed or elected by the House or nominated by the Speaker. It works under the direction of the Speaker and presents its report to the House or to the Speaker and the Secretariat. Different types of committees: • Standing committees: • The arliamentary committees: • The arliament of Business • They are further divided into financial committees and departmentally-related standing committees are there of rulament or Rules of Procedure and Conduct of Business • They are further divided into financial committees and departmentally-related standing committees are formed for a specific purpose. That select committee cases to exist once the Bill is disposed of. Adjournment sine die Context The winter session of Parliament ended recently. Both Houses were adjourned sine die ad ay ahead of schedule. • During the session, 13 alils were introduced, while 11 Bills were passed by both Houses of parliament is		
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	 A jail term of three to 10 years and a fine of Rs 50,000 has been mooted for those converting minors, women or persons from SC/ST communities. The Bill also envisages payment of a compensation of Rs 5 lakh (on court orders) to
	victims of conversion by the persons attempting the conversion, and double punishment for repeat offences.
Right to Be Forgotten	Context: The Centre told the Delhi High Court that the "right to be forgotten" is part of the fundamental right to privacy, but added it has no significant role to play in the matter.
	Key takeaways
	• The right to be forgotten allows a person to seek deletion of private information from the Internet.
	• The concept has found recognition in some jurisdictions abroad, particularly the European Union.
	 The EU in 2018 adopted the General Data Protection Regulation (GDPR), Article 17 of which provides for the right to erasure of certain categories of personal data.
	• While the right is not recognised by law in India, courts in recent months have held it to be an intrinsic part of the right to privacy.
	 Petitions across courts have been seeking its enforcement.
	• In May 2019, Justice Pratibha M Singh of the Delhi High Court, said the "right to be forgotten" and "right to be left alone" are inherent aspects of the right to privacy, and restrained republication of these news reports.
Good	Gujarat tops the composite ranking in the 58 indicator index followed by Maharashtra
Governance	and Goa
Index 2021	 Uttar Pradesh registers 8.9 percent improvement in GGI indicators in the period 2019 to 2021
	 Jammu and Kashmir registers 3.7 percent improvement in GGI indicators in the period 2019 to 2021
	 Delhi tops the Union Territories category composite ranking Good Governance Index, GGI 2021 framework covered ten sectors and 58 indicators.
	 Gujarat has performed strongly in 5 of the 10 sectors including economic governance, human resource development, public infrastructure and utilities, social welfare and development, judiciary and public safety, according to the statement.
	 Maharashtra has performed strongly in agriculture and allied sector, human resource development, public infrastructure and utilities, social welfare and development.
	 Goa has performed strongly in agriculture and allied sector, commerce and industry, public infrastructure and utilities, economic governance, social welfare and
	development and environment.
	 Twenty states have improved their composite GGI scores over the GGI 2019 index scores.
	Good Governance Index:
	 GGI is a uniform tool that will help in assessing the status of governance and the impact of interventions undertaken by governments across all states and UTs.
	• GGI had been "scientifically designed" to reflect various parameters of governance.
	Objective of Good Governance Index:
	• To provide quantifiable data to compare the state of governance in all states and UTs,
	Enable states and UTs to formulate and implement suitable strategies for improving
	governance and shift to result oriented approaches and administration
Year End	• Bill on prohibition of Child Marriage (amendment) Act, 2021 introduced in lok sabha
Review-2021:	for raising the age of marriage of women from 18 to 21 years
Ministry of	• Sex ratio at birth (srb) improved by 19 points at national level, from 918 in 2014-15 to
Women and	937 in 2020-21
Child	Beti Bachao Beti Padhao: The scheme is being implemented across India and covering
Development	640 districts (as per Census 2011) across the country.
Ph no: 916919188	38 16 www.iasbaba.com

	 POSHAN Tracker: To promote the nutritional status of women and children, transparent and enabling environment is being created that nurtures health, wellness and immunity. Poshan Tracker application has been built on latest technology for ensuring real-time monitoring of supplementary nutrition and providing information for prompt supervision and management of services. Over 2 crore beneficiaries benefitted under Pradhan Mantri Matru Vandana Yojan scheme for pregnant women and lactating mothers. The Scheme envisages providin cash incentive amounting to INR 5,000/- in three installments directly to the Bank/Pos Office Account of Pregnant Women and Lactating Mother (PW&LM) in DBT Mode durin pregnancy and lactation. It is a measure for women empowerment through wag compensation and promotion of health seeking behavior. Web portal for PM Cares For Children Scheme launched for registration and
	 identification of beneficiaries to support children orphaned due to Covid pandemic Over 54 lakh women provided assistance under One Stop Centre Scheme Child helpline (1098) services started at bus stands in addition to railway stations Decision to distribute 100% fortified rice to states/UTs under Supplementary Nutritio Programme to address malnutrition among women and children Amendment In Juvenile Justice (Care And Protection Of Children) Act to strengthe implementation and monitoring mechanism under the act. Among others, the Amendment Act, 2021 empowers the District Magistrate including Additional Districe Magistrate to effectively coordinate and monitor the functions of the agencie responsible for implementation of JJ Act, 2015 and decides the cases of adoption under the provisions of the Act and also introduces eligibility conditions for appointment of the members of Child Welfare Committee. Simplification of adoption procedure for children adopted under the Hindu Adoptio & Maintenance Act, 1956 by persons who desire to relocate the child abroad
	 Registered overseas citizens of India granted parity with non-resident Indians in th matter of adoption.
Atal Ranking of Institutions on Innovation Achievements (ARIIA)	 Context According to Atal Ranking of Institutions on Innovation Achievements (ARIIA), Seve IITs and the Indian Institute of Science, Bengaluru, are among the top 10 central institutions i promotion and support of innovation and entrepreneurship development. Key takeaways The top rank has been bagged by the IIT, Madras followed by the IITs in Bombay, Delh Kanpur and Roorkee. The IISc has bagged the sixth position in the ranking. Atal Rankings of Institutions on Innovation Achievements (ARIIA) Initiative by: Ministry of Education Implemented by: AICTE and Ministry's Innovation Cell Aim: To systematically rank higher education institutions and universities in India o indicators related to Innovation, Start-up and Entrepreneurship Development amongs students and faculty. Parameters evaluated: Patent filed and granted Number of registered students and faculty start-ups Gund generation by incubated start-ups Specialised infrastructure created by institutions to promote innovation an entrepreneurship.
Shakti Criminal Laws	Context The Maharashtra Assembly passed the Shakti Criminal Laws (Maharashtr Amendment) Act unanimously.
Laws (Maharashtra	Key takeaways
Amendment)	 With the passage of the Bill, it became the second state in India after Andhra Prades
Act	• With the passage of the Bill, it became the second state in India after Andrira Prades to approve death penalty for heinous offences of rape and gangrape
	to approve death penalty for hemous offenees of tape and gangrape

	 A Gram Nyayalaya online portal has also been created, wherein the states/High court upload data relating to Gram Nyayalayas, including case disposal, on monthly basis. National Mission for Justice Delivery and Legal Reforms focuses of improvement of administration of justice and justice delivery and legal reform in the entire country and to address the diverse needs of all sections of stakeholders. Its objectives are two-fold:
	 683 Fast Track Special Courts (FTSCs) including 383 exclusive POCSO (e-POCSO) Court have disposed of 68120 cases in 2021 - to provide speedy justice to the victims of rap and POCSO Act through expeditious disposal of related cases. Centrally Sponsored Scheme (CSS) for Development of Infrastructure Facilities for Judiciary extended till 2025-26 National Legal Services Authority (NALSA): Launched a Legal Services Mobil Application, wherein all the services provided by Legal Services Authorities can be availed through the said mobile application.
	 The e-Court Integrated Mission Mode Project was launched with the objective of improving access to justice using technology. Using Video Conferencing, the District an High Court have heard nearly 1.65 Crore cases and the Supreme Court had nearly 1. lakh hearings making it the world leader Citizen Centric Services are provided through 7 platforms or service delivery channe for providing real time information on cases status, cause lists, judgements etc. t lawyers/litigants
Year End Review: Department of Justice	 120 Judges and 63 Additional judges appointed in high courts Tele-Law Services, to promote increased access to pre-litigation advice for rightful claiming their entitlements and timely redressal of their difficulties, is available a 75,000 CSCs/Gram Panchayats in 699 Districts; 12,70,135 total cases registered, or which advice has been enabled to 12,50,911 beneficiaries
	 has been enhanced to death penalty. The Act requires the trial in these cases to be conducted on a day-to-day basis ar completed within 30 working days from the date of filing of the chargesheet. It also requires for the investigation to be completed within a month of the FIR. In cases of grievous hurt caused due to acid attacks under Section 326A, the punishment has been enhanced to a minimum of 15 years which can be extended to the remainder of the natural life of the perpetrator along with fine. In cases of voluntarily throwing acid or attempting to throw it, punishment under section 326B has been enhanced to a minimum of seven years and a maximum of terms.
	 The existing law on rape had provisions for death penalty only in cases of repeate offences. The Act has also enhanced fines and punishment for offences of sexual violence agains women and minors. Under the POCSO Act too, punishment for penetrative sexual assault in heinous case

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Social Justice &	• It will focus on institutional support and also on community outreach programmes
Empowerment	the districts identified by Narcotics Control Bureau.
	Change in the strategy against drugs – from institutional level to level of society. It w
	launch campaigns in schools and colleges to prevent drug abuse among youth.
	• Till now through the various activities undertaken for the Abhiyaan, 1.4+ Crore peop
	have been reached out so far in the identified districts
	SMILE-Support for Marginalized Individuals for Livlihood and Enterprise
	 The Ministry of Social Justice and Empowerment has formulated an umbrella schem SMILE, which includes two sub-schemes - 'Central Sector Scheme for Comprehensiv Rehabilitation for Welfare of Transgender Persons' and 'Central Sector Scheme for Comprehensive Rehabilitation of persons engaged in the act of Begging'.
	• This umbrella scheme covers several comprehensive measures including welfar
	measures for both transgender persons and persons who are engaged in the act of begging with focus extensively on rehabilitation, provision of medical facilitie counselling, education, skill development, economic linkages etc with the support of State Governments/UTs/Local Urban Bodies, Voluntary Organizations, Communit Based Organizations (CBOs) and institutions and others.
	Swachhta Udyami Yojna (SUY)
	• Launched on the birth anniversary of Mahatma Gandhi on 2nd October 2014 with tw
	objectives of cleanliness and providing livelihood to Safai Karamcharis and liberate
	Manual Scavengers and their dependents.
	NSKFDC provides financial assistance to its target group for procurement of operation
	of mechanised sanitation related equipments and vehicles.
	Pradhan Mantri Dakshta Aur Kushalta Sampann Hitgrahi (PM-DAKSH) Yojana
	 In 2020-21, Department modified the existing Scheme of Assistance to skilling for
	OBCs/EBCs/DNTs with inclusion of SCs and Safai Karamcharis including Waste Picke
	and renamed it as PM DAKSH Yojana, a Central Sector Scheme.
	 The objective is to provide high quality skills through good quality institutions ar
	reputed Training institutes/partners (TIs/TPs) so as to ensure higher employability for
	the target group.
	 Apart from this, rural artisans who have become marginalized owing to new technologies in market, would be trained so as to adopt newer processes and increas their incomes.
	 With a target to skill around 2,71,000 SCs/OBCs/EBCs/DNT/Safai Karamcharis includir
	Waste Pickers during next five years (2021-22 to 2025-26)
	For the Elderly
	• Elderline – 14567 - The Helpline provides a platform to the senior citizens for grievand
	redressal. The Helpline also contributes in the field of awareness generation in respe
	of the Maintenance and Welfare of Parents and Senior Citizens (MWPSC) Act, 2007, ar
	the Schemes of the Central Government meant for welfare of senior citizens.
	 Senior Able Citizens for Re-Employment in Dignity (SACRED)- launched to provid
	employment to willing senior citizens by virtually matching their preferences wi
	preferences of companies ready to engage such senior citizens.
	 SAGE portal: A scheme for promoting Silver Economy in the country was launched und
	Atal Vayo Abhuday Yojana, which aims at assisting start-ups in the field of elder
	welfare (silver economy) by the Government of India. These start-ups are to be assisted
	by way of equity participation of GOI subject to a maximum of 49% equity, and subje
	to a maximum Rs. 1 crore, per start up.
	Scheme for Economic Empowerment of De-notified, Nomadic and Semi-Nomad Communities (SEED)
	• To provide coaching of good quality for DNT candidates to enable them to appear

To provide Health Insurance to them
To facilitate livelihood initiative at community level
• To provide financial assistance for construction of houses for members of these
communities.

ECONOMY	
GDP growth of 8.4% in Q2	 In News: India's gross domestic product (GDP) grew by 8.4% in the July to September quarter, compared to a 7.4% contraction a year ago, with the economy's gross value added (GVA) rising 8.5%, the National Statistical Office said on Tuesday. Factoring in the first quarter GDP growth of 20.1%, the first half of this year has
	recorded 13.7% growth and India is likely to record double digit growth for 2021-22 as a whole.
	 It shows that the recovery process is continuing to play out. Economists, however, were not fully convinced about the extent and durability of this
	 recovery and reacted with caution. Though the absolute GDP in the second quarter (Q2) was 0.3% higher than prepandemic levels, there were still many worrying areas.
	 In particular, the insipid private consumption spending that still lagging below pre- COVID levels along with activity in employment-intensive sectors like construction and contact-intensive sectors like retail and hotels.
	 The base effect of negative growth last year also helped nudge the GDP numbers up.
	 Investments, largely from the Government, continued to remain the key growth drivers while private consumption is yet to show a decisive recovery.
	• On the domestic demand side, only gross fixed capital formation emerged positive in Q2 over the 2019-20 level.
	 Even if the pace of recovery is sustained in the next two quarters, India's GDP for the year is expected to be only marginally higher than that in 2019-20 (by around 2%)," Improvements in Demand and investments are expected to be limited and gradual given
National Edible	 Improvements in Demand and investments are expected to be limited and gradual giver that even before the pandemic, the domestic economy was grappling with slowdown. Context: During the year 2020-21, India imported 133.5 lakh tonnes of edible oil, out of which
Oil Mission-Oil	the share of palm oil was around 56 %.
Palm	The National Mission on Edible Oils - Oil Palm (NMEO-OP) has been launched with the aim to
	augment the availability of edible oil in the country by harnessing area expansion, increasing crude palm oil production with the aim to reduce the import burden.
	Objective: To ensure self-sufficiency in edible oil production.
	 Aim: To reduce import dependence from 60% to 45% by 2024-25, by increasing domestic edible oil production from 10.5 million tonnes to 18 million tonnes which is a 70% growth target.
	 Farmers will get all needed facilities, from quality seeds to technology.
	Along with promoting the cultivation of oil palm, this mission will also expand the
	cultivation of our other traditional oilseed crops.
	What is the need for such schemes?
	 India is the largest consumer of vegetable oil in the world. India's Palm ail imports are almost 60% of its total vegetable ail imports.
	 India's Palm oil imports are almost 60% of its total vegetable oil imports. Recently, India's dependence on expensive imports has driven retail oil prices to new highs.
	 In India, 94.1% of its palm oil is used in food products, especially for cooking. Thus, palm oil is extremely important to India's edible oils economy.
	• Top consumers : India, China, and the European Union (EU). For the year 2021-22, a total of Rs 10422.69 lakh has been approved for various state annua action plans.
Pradhan Mantri Matsya Samnada	Context: Pradhan Mantri Matsya Sampada Yojana scheme was launched to bring about Blue Revolution through sustainable and responsible development of fisheries sector in India was
Sampada	recently launched. The PMMSY is an umbrella scheme with two separate Components: (a) Central Sector Scheme (CS) and (b) Centrally Sponsored Scheme (CSS).

Yojana	Key takeaways
(PMMSY)	 Total estimated investment will be of Rs. 20,050 crores to be implemented over a period of 5 years from FY 2020-21 to FY 2024-25.
	 Goal: To double the fish exports in the next 3 to 4 years i.e. by 2024-25. Objective:
	 (1) To address critical gaps in fish production and productivity; quality, technology, post- harvest infrastructure and management, modernisation and strengthening of value chain, traceability, establishing a robust fisheries management framework and fishers' welfare;
	 (2) Harnessing of fisheries potential in a sustainable, responsible, inclusive and equitable manner; (3) enhancing contribution to Agriculture GVA and exports;
	 (3) enhancing contribution to Agriculture GVA and exports, (4) Social, physical and economic security for fishers and fish farmers; (5) Robust fisheries management and regulatory framework
Global Fuel Economy	In News: According to GFEI 2021, the global goal to halve the fuel consumption of new light- duty vehicles by 2030 from 2005 levels is stalling.
Initiative (GEFI)	 The average rated fuel consumption of new light-duty vehicles fell by only 0.9% between 2017 and 2019.
	 The 3 major car markets - China, the European Union and the US - accounted for 60% of global sales of light-duty vehicles in 2019, which totalled 90 million, down 7% from 2017 A number of factors were responsible for the slowing pace of improvement between
	 2017 and 2019. These included- Stagnating fuel economy standards in the US and the EU up to 2019 Market share of SUVs is increased and these cars can use almost one-third more
	 fuel than a medium-sized car Slow adoption of electric cars to compensate for larger vehicles
	About GFEI
	 The Global Fuel Economy Initiative (GFEI) is collaboration between the UNEP, IEA, the University of California, International Council on Clean Transportation, International Transport Forum and the FIA Foundation.
	 GFEI promotes fuel efficiency in cars and light duty vans, through the adoption of the cost effective fuel efficiency technologies.
	 The objective of the GFEI is to help stabilize greenhouse gas emissions from the global light duty vehicle fleet through a 50% improvement of vehicle fuel efficiency
	 worldwide by 2050. GFEI promotes the introduction of cleaner, more energy efficient vehicles in developing and transitional countries.
	It offers support to governments to develop fuel economy policies.
Employment of Rural Youth	A. Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS): This is a demand driven wage employment programme which provide for the enhancement of livelihood security of the households in rural areas of the country by providing at least
	livelihood security of the households in rural areas of the country by providing at least one hundred days of guaranteed wage employment in every financial year to every household whose adult members volunteer to do unskilled manual work.
	B. Deen Dayal Upadhyaya Grameen Kaushalya Yojana (DDU-GKY): This is a placement linked skill development programme for wage employment.
	C. Skill development through Rural Self Employment and Training Institutes (RSETIs): This enables a trainee to take bank credit and start his/her own Micro-enterprise. Some of such trainees may also seek regular salaried jobs.
	 D. Pradhan Mantri Kaushal Vikas Yojana (PMKVY): For Skill based training of the youth across the country including of youth belonging to Scheduled Caste/ Scheduled Tribe/

	 Economically weaker Section under Short Term Training (STT) courses and Recognition of Prior Learning (RPL). E. Prime Minister's Employment Generation Programme (PMEGP): Ministry of Micro, Small & Medium Enterprises is implementing Prime Minister's Employment Generation Programme (PMEGP), which is a major credit-linked subsidy programme aimed at generating self-employment opportunities through establishment of micro-enterprises in the non-farm sector by helping traditional artisans and unemployed youth. PMEGP Scheme facilitates generation of self-employment opportunities through establishment of micro-enterprises in the non-farm sector by helping traditional artisans and unemployed youth.
Dam Safety Bill	In News: The Rajya Sabha passed the landmark Dam Safety Bill (2019), paving the way for
(2019)	enactment of the Dam Safety Act in the country.
()	• The Dam Safety Bill (2019) was passed by the Lok Sabha on 2nd August 2019.
	Key Features of the bill
	• Regulation of Specific dams: The Bill provides for the surveillance, inspection, operation, and maintenance of all specified dams across the country. These are dams with height more than 15 metres, or height between 10 metres to 15 metres with certain design and structural conditions.
	Institutional Mechanisms: It constitutes two national bodies:
	 the National Committee on Dam Safety, whose functions include evolving policies and recommending regulations regarding dam safety standards; and the National Dam Safety Authority, whose functions include implementing policies of the National Committee, providing technical assistance to State Dam Safety Organisations (SDSOs), and resolving matters between SDSOs of states or
	between a SDSO and any dam owner in that state.
	 State Bodies: It also constitutes two state bodies: State Committee on Dam Safety, and State Dam Safety Organisation. These bodies will be responsible for the surveillance, inspection, and monitoring the operation and maintenance of dams within their jurisdiction. Penal Provisions: An offence under the Bill can lead to imprisonment of up to two years, and fine enclosed.
	or a fine, or both. In News: India's score is 27.5 and it has ranked 101 among 116 countries.
Global Hunger Index 2021	What is the Global Hunger Index?
Index 2021	 The GHI is an annual peer-reviewed publication by Concern Worldwide and Welthungerhilfe. It aims to track hunger at global, regional and national levels. It uses four parameters to calculate its scores –
	 Undernourishment
	 child wasting
	• <u>child stunting</u> and
	• Child mortality
	 Information from the World Health Organization, the World Bank and the United Nations are taken to calculate these parameters.
	• All these international organisations draw from national data, which, in India's case,
	includes the National Family Health Surveys (NFHS).
	Global Hunger Index (GHI) does not reflect India's true picture as it is a flawed measure of
	'Hunger'.
	It should not be taken at face value as it is neither appropriate nor representative of hunger prevalent in a country. Out of its four indicators, only one indicator, i.e., undernourishment, is directly related to hunger.
	• The two indicators, namely, Stunting and Wasting are outcomes of complex interactions of various other factors like sanitation, genetics, environment and utilisation of food

	 intake apart from hunger which is taken as the causative/outcome factor for stunting and wasting in the GHI. Also, there is hardly any evidence that the fourth indicator, namely, child mortality is an outcome of hunger.
Women Farmers in the Country	 In News: As per the information collected in Agriculture Census 2015-16, about 11.72% of the total operated area in the country was operated by female operational holders. The National Crime Records Bureau (NCRB) under the Ministry of Home Affairs compiles
country	and disseminates information on suicides in its publication titled 'Accidental Deaths and Suicides in India'.
	 As per the publication, the term 'Farmer' is defined as "the Person whose profession is farming and includes those who cultivate on their own land as well as those who cultivate on leased land/other's land with or without the assistance of agricultural labourers".
Urban co-op banks	Context Reserve Bank of India (RBI) Governor has indicated that the RBI will bring regulatory changes to reform urban cooperative banks (UCBs).
	 UCBs have been plagued by a series of failures. RBI has also warned people against depositing their savings in banks offering high returns.
	What is an Urban co-op bank?
	The term Urban Co-operative Banks (UCBs) refers to primary cooperative banks located
	in urban and semi-urban areas.
	 These banks were traditionally centred around communities, localities and workplace groups. They essentially lent to small borrowers and businesses. Today, their scope of operations has widened considerably.
	Difference between UCBs and Commercial Banks
	 Regulation: Unlike commercial banks, UCBs are only partly regulated by the RBI. Banking operations of the UCBs are regulated by the RBI, but their management and resolution in the case of distress is regulated by the Registrar of Co-operative Societies either under the State or Central government.
	 Borrower can be a Shareholder: In a commercial bank, there is a clear distinction between its shareholders and its borrowers whereas in a UCB, borrowers can even double up as shareholders.
World's largest	To be set up at Simhadri
Green	• It would be a precursor to large scale hydrogen energy storage projects and would be
Hydrogen Microgrid	useful for studying and deploying multiple microgrids in various off grid and strategic locations of the country.
Projects:	 Would open doors for decarbonising the far-off regions of the country like Ladakh, J&K
-	etc., hitherto dependent on diesel generators.
	• The project is in-line for India to become carbon neutral by 2070 and making Ladakh a carbon neutral territory.
Pradhan	Context: Accelerated Irrigation Benefit Programme (AIBP), Har Khet ko Paani (HKKP) and
Mantri Krishi Sinchayee	 Watershed Development components have been approved for continuation during 2021-26. Accelerated Irrigation Benefit Programme - Aims for financial support to irrigation
Yojana for	projects. Apart from focused completion of 60 ongoing projects including their 30.23
2021-26	lakh hectare command area development, additional projects can also be taken up.
	• Har Khet Ko Pani (HKKP) aims for enhancement of physical access on the farm and expansion of cultivable area under assured irrigation. Under HKKP, surface minor irrigation and repair-renovation-restoration of water bodies component of PMKSY is targeted to provide additional 4.5 lakh hectare irrigation. In view of importance of
	rejuvenation of water bodies, the Cabinet has approved a paradigm shift in funding of their rejuvenation in both urban and rural areas, with significant expansion of their

	inclusion criteria, and enhancement of central assistance from 25% to 60% in general area.
	 Watershed Development component focuses on development of rainfed areas towards soil and water conservation, regeneration of ground water, arresting runoff and promoting extension activities related to water harvesting and management. The approved Watershed Development component of Department of Land Resources envisages completion of sanctioned projects covering 49.5 lakh hectare rainfed/ degraded lands to bring additional 2.5 lakh hectare under protective irrigation, during 2021-26. A specific provision for development of spring sheds has been included in the program.
	Background:
	• Launched in 2015, PMKSY is an umbrella scheme, providing central grants to the State
	Governments for specific activities detailed below.
	 It consists of two major components by Department of Water Resources, River Development and Ganga Rejuvenation, namely, Accelerated Irrigation Benefits Programme (AIBP), and Har Khet Ko Pani (HKKP). HKKP, in turn, consists of four sub- components, being Command Area Development (CAD), Surface Minor Irrigation (SMI), Repair, Renovation and Restoration (RRR) of Water Bodies, and Ground Water Development. In addition, Watershed Development part is being implemented by Department of Land Resources.
CCI fines	Context The Competition Commission of India (CCI) froze its approval given in November 2019
Amazon for Rs.	to Amazon's investment in a Future Group unit on the grounds that the Amazon had suppressed
200 crore	the scope and full details of its investment while seeking regulatory approval.
	About Competition Commission of India (CCI)
	 It is a statutory body established in 2003 and became fully functional in 2009. It is responsible for enforcing The Competition Act, 2002 throughout India.
	 The Act prohibits anti-competitive agreements, abuse of dominant position by enterprises.
	• The Act regulates combinations (acquisition, acquiring of control and Merger and acquisition), which causes or likely to cause an appreciable adverse effect on competition within India.
	• Composition: A Chairperson and 6 Members appointed by the Central Government.
	• Eligibility: Person should be qualified to be a judge of a High Court, or, has special
	knowledge of, and professional experience of not less than fifteen years in international
	trade, economics, commerce, law, finance.
	Duties:
	 eliminate practises having adverse effect on competition promote and sustain competition.
	 protect the interests of consumers.
	 ensure freedom of trade in the markets of India.
International	Context International Development Association (IDA) has recently provided \$93 billion cash to
Development	help the world's poorest nations which would help scale up aid for pandemic recovery and other
Association	programs.
(IDA)	Key takeaways
	 It was the biggest replenishment ever for the International Development Association (IDA), which provides grants for 74 countries, most of which are in Africa.
	 The package includes \$23.5 billion of contributions from high- and middle-income
	countries as well as financing raised in the capital markets and the World Bank's own contributions.
	 The funds will help countries prepare better for future crises.

	 It is an international financial institution which offers concessional loans and grants to the world's poorest developing countries. The IDA is a member of the World Bank Group Headquartered: Washington, D.C.
	 It was established in 1960 to complement the existing International Bank fo Reconstruction and Development
Sustainable Urban	Context The Government of India and the Asian Development Bank (ADB) have signed Sustainable Urban Development and Service Delivery Program.
Development	Key takeaways
and Service	 Ministry: Ministry of Housing and Urban Affairs
Delivery Program	 It is a \$350 million policy-based loan to improve access to urban services in India. Policy actions and reforms will be accelerated to enhance service delivery and promote performance-based central fiscal transfers to urban local bodies (ULBs). ADB will provide knowledge and advisory support to the in program implementation including monitoring and evaluation.
	Asian Development Bank (ADB)
	 It is a regional development bank established on 19 December 1966 Headquartered: Manila, Philippines.
	 ADB aims to promote social and economic development in Asia. The ADB was modelled closely on the World Bank, and has a similar weighted votin system.
	 It now has 68 members.
	 ADB is an official United Nations Observer.
	 India was a founding member of the Asian Development Bank (ADB) in 1966 and is now the bank's fourth largest shareholder and top borrower.
Fugitive Economic Offenders	Context Union Finance Minister Nirmala Sitharaman informed the Lok Sabha that banks hav recovered ₹13,109.17 crore by selling the assets of fugitives like Vijay Mallya, Nirav Modi an Mehul Choksi.
	All the three have been declared 'Fugitive Economic Offenders' by PMLA (Prevention of Money Laundering Act) Court in Mumbai.
	 About Fugitive Economic Offenders Act, 2018 Fugitive Economic Offenders Act (FEOA) became a law on July 31, 2018. Objectives:
	 To deter economic offenders from avoiding the process of Indian law b remaining outside the jurisdiction of Indian courts.
	 To ensure that fugitive economic offenders return to India to face the action i accordance with law.
	 Defining Fugitive economic offender (FEO): FEO is defined as an individual who has committed offences involving an amount of 100 crore rupees or mor and
	 has ran away from India to avoid criminal prosecution.
	Special Court: A special court will be established under the Prevention of Money
	laundering Act, 2002 to declare a person as a Fugitive Economic Offender.
	 Attachment of property: Special courts can direct the Central government to seize assets of fugitive economic offender including those that are proceeds of the crime.
	Appeal: Appeals against the orders of the special court will lie before the High Court.
VanDhan Chronicle	 Context TRIFED Vandhan Chronicle was launched by Minister for Tribal Affairs. Key takeaways TRIFED VanDhan Chronicle is an in-depth resource on the Van Dhan Yojana and TRIFED'
	activities in this important scheme.

	• Over the past two years, The 'Mechanism for Marketing of Minor Forest Produce (MFP) through Minimum Support Price (MSP) & Development of Value Chain for MFP' has
	 impacted the tribal ecosystem in a major way. The Van Dhan tribal start-ups have emerged as a source of employment generation for
	tribals and forest dwellers.
	About The Tribal Cooperative Marketing Development Federation of India (TRIFED)
	• Established in 1987, under the Multi-State Cooperative Societies Act, 1984, this statutory body works for the social and economic development of the tribal people of the country and is administered by the Ministry of Tribal Affairs.
	It has been registered as a National Level Cooperative body by the Government of the country
	 It helps tribal people manufacture products for national and international markets on a sustainable basis and also supports the formation of Self-Help Groups and imparting training to them.
Anti-dumping duty	Context: India has imposed anti-dumping duty on five Chinese products for five years to protect local manufacturers from cheap imports from the neighbouring country.
	About Anti-dumping Duty
	• An anti-dumping duty is a protectionist tariff that a domestic government imposes on foreign imports that it believes are dumped.
	• The imposition of anti-dumping duty is permissible under the World Trade Organization regime.
	• It is aimed at ensuring fair trading practices and creating a level-playing field for local
	producers vis-a-vis foreign producers and exporters.
	These tariffs can also lead to higher prices for domestic consumers.
Flex Fuel Vehicles (FFV)	Context: Union Minister for Road Transport and Highways advised the Automobile Manufacturers in India to start manufacturing Flex Fuel Vehicles (FFV) and Flex Fuel Strong Hybrid Electric Vehicles (FFV-SHEV) complying with BS-6 Norms in a time bound manner within
	a period of six months.
	Key takeaways
	 In line with the government's policy on promoting ethanol as a transport fuel, Flex Fuel Vehicles are capable of running on a combination of 100% Petrol or 100% bio-ethanol and their blends, along with strong Hybrid Electric technology in case of FFV-SHEVs. Significance: This move will drastically reduce Greenhouse Gas emissions from vehicles, helping India to comply with its commitment made at COP26 to reduce the total projected carbon emissions by One Billion Tonnes by 2030. In order to accelerate the introduction of Flex Fuel vehicles, the Production Linked Incentive (PLI) scheme has included automobile & auto components and auto
	components of flex fuel engines.
	What are flex-fuel engines?
	• A 'flex-fuel engine' is an internal combustion engine that can run on more than one type of fuel and also a mixture.
	• Typically, a blend of petrol and ethanol or methanol is used, and the engine is capable of automatically adjusting for any ratio.
	• Flex-fuel engines are capable of running on 100 percent petrol or ethanol and are already available in countries such as Brazil, USA and Canada.
e-Shram portal	 Context The Centre's <u>e-Shram portal</u> crossed the 15-crore mark recently. Uttar Pradesh sees the highest number of enrolments at 31.6 lakh.
	e-Shram portal
	• It is a portal through which the government aims to register 38 crore unorganised workers, such as construction labourers, migrant workforce, street vendors and
	 domestic workers, among others. Ministry: Ministry of Labour & Employment

	 The workers will be issued an e-Shram card containing a 12-digit unique number, whic going ahead, will help in including them in social security schemes. Registration at E-shram will facilitate unorganized workers to get the benefits of various of the security schemes.
	social security and employment-based schemes
2021- A Year of	India has the unique advantage of the entire value chain for textile production present with
Game	the country vis-à-vis other competing nations which have to import fibre, yarn and fabric
Changing	meet their requirement for garment production. It has a large market, which is growing rapid
Reforms for	with affordable manpower.
Ministry of	• The domestic textile and apparel production is approx US\$ 140 Bn including US\$ 40 E
Textiles	of Textiles and Apparel export.
	 The textile and apparel industry contributed 2% in the overall GDP of India in 2019 ar
	11% to total manufacturing in GVA.
	 Widely referred to as a change agent owing to its transformative powers, this indust
	alone has the capacity to generate around 70 jobs in garmenting and an average of 3
	jobs overall for every INR 1 crore (USD 132,426) invested as compared to 12 jobs create
	on an average in other industries.
	 With direct and indirect employment of close to 105 million people, this industry is the
	second largest employment generator in the country, next only to agriculture.
	 More significantly, women constitute 70% of the workforce in garment manufacturing
	and about 73% in Handloom.
	Supporting Factors
	 Availability of almost all types of raw materials
	Existence of total value chain
	 Young demography of India
	 Entrepreneurial mindset of industry leaders
	 Continuous support of Government
	Technology up gradation
	Focus on innovation
	• Strong presence of support industries will help this sector grow at a healthy pace
	coming decade.
	Game changing Reforms
	 Government approved setting up of 7 Pradhan Mantri Mega Integrated Textile Region
	and Apparel (MITRA) Parks with a total outlay of Rs. 4445 Crores
	• PM MITRA Park will encompass all '5F' components: Farm to Fibre; Fibre
	Factory; Factory to Fashion; Fashion to Foreign.
	 Under PM MITRA Parks World-class Industrial infrastructure would attra
	cutting age technology/scale and FDI / local investment in the sector
	\circ PM MITRA Parks to generate around 1 Lakh direct and 2 lakh indire
	employment per park
	Production Linked Incentive (PLI) Scheme for Textiles is specially focused at high value
	and expanding MMF and Technical Textiles segments of Textiles Value Chain
	 Government approved continuation of RoSCTL scheme up to March 2024 to boo
	export competitiveness of Indian apparel and made-ups
	Under SAMARTH Scheme, a total of 71 textile manufacturers, 10 industry association
	13 state government agencies and 4 sectoral organizations on-boarded with a
	allocated target of 3.45 lakh beneficiaries. Samarth is a placement oriented programn

targeting skill development of unemployed youth in the value chain of textiles for gainful employment in organized sector and skill upgradation of weavers & artisans in
traditional sector.
Ministry of Textiles approved rationalization and continuance of Integrated Wool
Development Programme (IWDP) from 2021-22 to 2025-26 with total financial allocation of Rs. 126 Crore
• A National Action Plan for Indian Toy Story has been made with collaboration of 14
Ministries/Departments of Government of India.



	ENVIRONMENT
Electricity	In News: India has achieved the ambitious target of 40 per cent of installed electricity capacit
Capacity from	from non-fossil fuel sources.
Non-Fossil Fuel	Key Takeaways
	 The Ministry of New and Renewable Energy has said that total installed non-fossil fue based capacity stands at 156.83 Giga Watts in the country.
	 The Ministry said, as a part of its Nationally Determined Contributions, India has committed to achieve 40 percent of its installed electricity capacity from non-fost
	energy sources by 2030.
	• The Ministry said, the country's installed Renewable Energy capacity today stands 150.05 Giga Watts while its nuclear energy-based installed electricity capacity stands
	6.78 Giga Watts.
	 It said, this brings the total non-fossil based installed energy capacity to 156.83 Gig Watts which is 40.1 percent of the total installed electricity capacity of over 390 Gig Watts.
	 Government said it is committed to achieve 500 Giga Watts of installed electricity
	capacity from non-fossil fuel sources by the year 2030 in line with the Prime Minister
	announcement at the recently concluded CoP-26.
Hornbill	
	 It is annually held from 1 – 10 December. The first festival was held in 2000.
Festival	The festival organized by Nagaland Government is an annual tourism promotional eve
	to showcase the state's traditional and rich cultural heritage in all its ethnicity, diversi
	and grandeur.
	 The objective is to encourage inter-tribal interaction and to promote cultural heritage
	of Nagaland.
	• Highlights of the Hornbill Festival include witnessing the cultural performance
	different tribes of Nagaland and Northeastern States, indigenous games, city tour, nig
	carnival, art exhibition, photo-fest and many more.
	 One of the major highlights of this festival is the Hornbill International Rock Festiv
	where local and international rock bands perform.
	Hornbills:
	 India is home to nine species of hornbills: three of them, the wreathed hornbill (Acero undulatus), the brown hornbill (Anorrhinus austeni) and the Rufous-necke hornbill (Aceros nipalensis) great hornbill is the state bird of Arunachal Pradesh ar
	Kerala. India also has Narcondam Hornbill, found only on the island of Narcondam.
	 Hornbill festival celebrated in Nagaland is named after the bird – Hornbill which is the most revered and admired bird for the Nagas.
	Do you know?
	 Hornbills used to be hunted for their casques — upper beak — and feathers f
	 Hombins used to be numed for their casques — upper beak — and reathers in headgear despite being cultural symbols of some ethnic communities in the northeas
	specifically the Nyishi of Arunachal Pradesh .
	But a 20 year-old conservation programme entailing the use of fibreglass beaks reduce
	the threat to the birds to a large extent.
Centre's Air	In News: The Supreme Court approved the measures taken by the Centre's Air Quali
Quality	Commission to create an 'Enforcement Task Force' and flying squads to prevent and penalis
Commission	polluters in Delhi NCR.
	• The task force was formed on December 2. The task force has two independe
	members. It will meet at 6 p.m. everyday. The task force will take action on behalf
	the commission against violators.
	 Also, 17 flying squads (which will increase to 40) to conduct surprise check was formed
	that would directly report to the task force.
	About Centre's Air Quality Commission
Ph no: 91691918	

	 The Commission for <u>Air Quality Management</u> in the National Capital Region (NCR) and Adjoining Areas act, 2021 established the said commission. The objective of the commission is for better coordination, research, identification, and
	 resolution of problems related to air quality in the NCR and adjoining areas. Adjoining areas have been defined as areas of Haryana, Punjab, Rajasthan, and Uttar Pradesh adjoining the NCR where any source of pollution may cause adverse impact on
	 It also dissolves the Environment Pollution Prevention and Control Authority established in the NCR in 1998.
	Functions of the Commission:
	 Co-ordinating actions by concerned state governments (Delhi, Haryana, Punjab, Rajasthan, and Uttar Pradesh)
	 Planning and executing plans to prevent and control air pollution in the NCR
	 Providing a framework for identification of air pollutants Conducting research and development through networking with technical institutions Training and creating a special workforce to deal with issues related to air pollution
	 Preparing various action plans such as increasing plantation and addressing stubble burning.
	Powers of the Commission:
	Restricting activities influencing air quality
	 Investigating and conducting research related to environmental pollution impacting air quality
	 Preparing codes and guidelines to prevent and control air pollution
	 Issuing directions on matters including inspections, or regulation which will be binding on the concerned person or authority.
	 It may impose and collect environment compensation from farmers causing pollution by stubble burning. This compensation will be prescribed by the central government.
Project Re-Hab	In News: Buoyed by the success of its innovative Project RE-HAB (Reducing Elephant-Human Attacks using Bees) in Karnataka, Khadi and Village Industries Commission (KVIC) has now
	replicated the project in Assam.
	• Surrounded by dense forests, a large part of Assam is infested by elephants with 332 human deaths reported between 2014 and 2019 due to elephant attacks.
	What is Project Re-Hab?
	Project RE-HAB (Reducing Elephant-Human Attacks using Bees)
	 Objective: To prevent elephant attacks in human habitations using honeybees.
	 It entails installing bee boxes along the periphery of the forest and the villages. Under Project RE-HAB, "Bee-fences" are created by setting up bee boxes in the passage ways of elephants to block their entrance to human territories.
	 The boxes are connected with a string so that when elephants attempt to pass through, a tug or pull causes the bees to swarm the elephant herds and dissuade them from
	progressing further.It is a cost-effective way of reducing human-wild conflicts without causing any harm to
	the animals. It is scientifically recorded that elephants are annoyed by the honey bees.It is believed that elephants' fear of the bees will prevent them from transgressing into
	human landscape.
	• Project Re-HAB is a sub-mission of the KVIC's National Honey Mission.
	• <u>Project RE-HAB was launched</u> at 11 locations in Kodagu district of Karnataka on 15th March 2021. In just 6 months, this project has reduced elephant attacks by over 70%.
Government	In News: The Government has set a target to raise the share of natural gas in energy mix to 15%
has set a target	in 2030 from about 6.7% now.
to raise the	 To achieve the target, following initiatives have been taken: -
share of	 Expansion of National Gas Grid to about 35,000 Km from current 20,000 Km.
Ph no: 916919188	31 www.iasbaba.com

natural gas in energy mix to 15% in 2030	 Expansion of CGD network -11th CGD round launched on 17.09.2021. After completion of 11th city gas distribution (CGD) round, 96% of India's population and 86% of its geographic area would be covered under CGD network. Setting up of LNG Terminals. Allocation of domestic gas to CNG (T) / PNG (D) in no cut category. Allowing marketing and pricing freedom to gas produced from high pressure/high temperature areas, deep water & ultra-deep water and from coal seams. SATAT initiatives to promote Bio-CNG. Considering the demand of natural gas across sectors and the possibility of price of LNG coming down in future, current high prices do not threaten India's goal to boost the use of gas in its energy mix.
Right to	Context India's President has expressed concern that time was running out for preserving
climate justice	nature for future generations and called for a debate on the right to climate justice.
	 What is Climate justice? Climate justice is a term used for framing global warming as an ethical and political issue rather than one that is purely environmental or physical in nature. Relevance of Climate Justice in present times Development vs. environment degradation: Measures taken for development
	largely have negative impact on the environment. IPCC reports have given stric warning about the devastating impacts of rising global temperature beyond 1.5 degree Celsius.
	 Prioritising investment: Developing countries particularly lack funds for investment for implementing climate change actions. Climate justice helps to prioritise investment around the vulnerabilities of the communities wors affected by climate change. Lobbying by businesses and industrial groups: Big industrialists in fossil fue
	based businesses pressurize governments not to take decisions for quic transition to renewable based solutions. Climate justice shifts the focus of polic planning to the suffering communities.
	 Resistance shown by developed countries: Climate justice focuses or inequitable nature of impact of climate change and brings into the picture accountability for actions done by some countries over the other countries.
Stubble as biofuel	Context The Union Government is working on a plan to use stubble as a biofuel and manure as part of an effort to deal with stubble burning that was often cited as a source of pollution in northern India
	What is Stubble Burning?
	 Stubble burning is the act of setting fire to crop residue to remove them from the field to sow the next crop
	• It is a traditional practice in Punjab and Haryana to clean off the rice chaff to prepare the fields for winter sowing
	 It begins around October and peaks in November, coinciding with the withdrawal o southwest monsoon.
	 On December 10, 2015, the National Green Tribunal (NGT) had banned crop residue burning in the states of Rajasthan, Uttar Pradesh, Haryana and Punjab
	 What are biofuels? Biofuels are liquid or gaseous fuels primarily produced from biomass. Can be used to replace or can be used in addition to diesel, petrol or other fossil fuel for transport, stationary, portable and other applications.
India co-chairs	Context: Global Methane Initiative (GMI) is a voluntary Government and an information
Global Methane	international partnership having members from 45 countriesincluding the United States and Canada.
Initiative	

	 The forum has been created to achieve global reduction in anthropogenic methane emission through partnership among developed and developing countries having economies in transition. The forum was created in 2004 and India is one of the members since its incention and
	• The forum was created in 2004 and India is one of the members since its inception and has taken up Vice-Chairmanship for the first time in the Steering Leadership along with USA. The Chairperson of the Steering Leadership is from Canada.
	• Emission of methane is a big concern as it is a greenhouse gas having 25-28 times harmful effect than carbon dioxide
	About Methane
	 Methane is a greenhouse gas. It is 80 times more potent than carbon dioxide in terms of its global warming capacity. Approximately 40% of methane emitted is from natural sources and about 60% comes from human-influenced sources, including livestock farming, rice agriculture, biomass burning and so forth.
United Nations	In News: United Nations granted Observer status to International Solar Alliance.
grants	 This is going to give impetus to "One Sun One world one grid "
observer status	 This will help in bringing equitable energy solutions to the world.
to International	Help towards achieving the goal of net-zero carbon emissions through global co- operations.
Solar Alliance	What is ISA?
	• The International Solar Alliance (ISA) is an alliance of 121 countries initiated by India, most of them being sunshine countries, which lie either completely or partly between the Tropic of Cancer and the Tropic of Capricorn.
	 The primary objective of the alliance is to work for efficient consumption of solar energy to reduce dependence on fossil fuels.
	 The alliance is a treaty-based inter-governmental organization. Countries that do not fall within the Tropics can join the alliance and enjoy all benefits as other members, with the exception of voting rights.
	• The initiative was launched by Prime Minister Narendra Modi at the Paris Climate Summit, and a meeting of member countries ahead of the 2015 United Nations Climate Change Conference in Paris in November 2015.
	 The framework agreement of the International Solar Alliance opened for signatures in Marrakech, Morocco in November 2016, and 200 countries have joined. The ISA is headquartered in Gurugram.
	 The focus is on solar power utilization. The launching of such an alliance in Paris also sends a strong signal to the global communities about the sincerity of the developing nations towards their concern about climate change and to switch to a low-carbon growth path.
	 'One Sun One World One Grid' (OSOWOG) initiative proposed by India Proposed by India to set up a framework for facilitating global cooperation which aims at building a global ecosystem of interconnected renewable energy resources that can be easily shared
	• Envisions building and scaling inter-regional energy grids to share solar energy across the globe, leveraging the differences of time zones, seasons, resources, and prices between countries and regions
	 Help decarbonise energy production, which is today the largest source of global greenhouse gas emissions.
	 With India's Ministry of New and Renewable Energy, the World Bank and the ISA signing a tripartite agreement on OSOWOG, the initiative could be the world's most important renewables catalyst. It can unlock unprecedented economies of scale in energy generation and transmission.

	 Rigorous assessments and modelling have confirmed the initiative's technical and economic viability, building a strong business case. Its commercial feasibility has been further augmented by multilateral development banks such as World Bank which are balaing anote mediate by driving down parts of
	banks such as World Bank, which are helping create markets by driving down costs of solar power.
Kazhuveli notified as bird	Context The ecologically important Kazhuveli wetlands in Villupuram district, Tamil Nadu, was recently notified as bird sanctuary.
sanctuary	 Key takeaways Kazhuveli wetlands is said to be the second largest brackish water lake in South India after Pulicat lake. It is a wetland of international importance Significance: The creation of the sanctuary will now ensure better protection of the wetlands.
	 The area has adequate ecological significance for the purpose of protecting, propagating and developing wildlife and its environment.
	 The place is home to a diverse species of flora and fauna. It is a feeding ground for long-distance migrants from the cold subarctic regions of Central Asia and Siberia including Black-tailed Godwits, Eurasian Curlew, White Stork and Ruff.
Buxa Tiger Reserve	Context Recently, a Royal Bengal Tiger has been spotted in Buxa tiger reserve in West Bengal after at least 23 years. It was in 1998 that images of a Royal Bengal tiger were last captured at the reserve.
	 About Buxa tiger reserve It is a tiger reserve in Alipurduar district, West Bengal. Created in 1983 as the 15th tiger reserve Its northern boundary runs along the international border with Bhutan. The Sinchula hill range lies all along the northern side of BTR and the eastern boundary touches that of the Assam state. It represents the highly endemic Indo-Malayan region. The fragile "Terai Ecosystem" constitutes a part of this reserve. The Phibsoo Wildlife Sanctuary of Bhutan is contiguous to the north of BTR. Manas National Park lies east of BTR. BTR, thus, serves as an international corridor for Asian elephant migration between India and Bhutan. Some of the rivers flowing through this reserve are Jayanti, Sankosh, Raidak, Churnia, Turturi, Dima, Nonani, Phashkhawa. The forest of the reserve is classified as the Moist Tropical forest. Rajabhatkhawa Vulture Breeding Center at Buxa Tiger Reserve for the breeding and conservation of endangered Indian vultures was established as the second such center with the help of Bombay Natural History Society and British charity Royal Society for the
Biological Diversity Act ,	Protection of Birds. Context The Biological Diversity Amendment Bill 2021, introduced in the Lok Sabha, exempts Ayush practitioners from the ambit of the Biological Diversity Act, 2002.
2002	 It also facilitates access to biological resources and traditional knowledge by the Indian traditional medicine sector. Legal experts have expressed concerns that easing the norms for the sector could be detrimental to ecology and go against the principle of sharing commercial benefits with indigenous communities.
	 What is the Biological Diversity Amendment Bill 2021? The Biological Diversity Act, 2002 was enacted for the conservation of biological diversity and fair, equitable sharing of the monetary benefits from the commercial use of biological resources and traditional knowledge.

	• Now, according to the Bill, it seeks to reduce the pressure on wild medicinal plants by encouraging their cultivation
	 It exempts Ayush practitioners from intimating biodiversity boards for accessing biological resources or knowledge
	 It facilitates fast-tracking of research, simplify the patent application process,
	decriminalises certain offences;
	 It brings more foreign investments in biological resources, research, patent and commercial utilisation, without compromising the national interest.
Rain Water	Context Minister of State for Jal Shakti informed Rajya Sabha about the Rain Water Harvesting.
Harvesting	Key takeaways
5	 Though Water is a State subject, Central Government has taken important measures for implementation of rain water harvesting through scientific manner including watershed principles in the country. Ministry of Housing & Urban Affairs (MoHUA) has formulated guidelines for the States to adopt measures suitable to local conditions.
	 In addition, a number of States have done notable work in the field of water
	conservation/harvesting such as
	 'Mukhyamantri Jal Swavlamban Abhiyan' in Rajasthan
	 'Jalyukt Shibar' in Maharashtra, 'Sujalam Sufalam Abhiyan' in Gujarat
	 'Mission Kakatiya' in Telangana NeeruChettu' in Andhra Pradesh
	 NeeruChettu' in Andhra Pradesh Jal Jeevan Hariyali in Bihar
	 Jal Hi Jeevan' in Haryana
	 Kudimaramath scheme in Tamil Nadu.
Albino Indian	Context In the Sirnapalli forest of Telangana, an international forest forensic investigator had a
Flapshell Turtle	chance encounter with the rarely found species of Albino Indian Flapshell turtle.
	About Albino Indian Flapshell Turtle
	• It is a freshwater species of turtle found in South Asia. It is widespread Pakistan, India,
	 Sri Lanka, and Bangladesh. The "flap-shelled" name stems from the presence of femoral flaps.
	 These flaps of skin cover the limbs when they retract into the shell.
	 Its IUCN status is Vulnerable.
	• While typical Indian flapshell turtles are dark green and brown, the example found
	recently has a decidedly more vibrant appearance.
	• The Indian flapshell turtle's albino appearance is due to genetics. It is a congenital
	disorder and it is characterised by complete or partial absence of tyrosine pigment.
Biligiri	Context There are plans to uproot lantana spread over 70,000 hectares of forests in BRT Tiger
Rangaswamy	Reserve and Bandipur during the course of next five years.
Temple (BRT) Tiger Reserve	 But there are concerns that uprooting it on such a scale will entail disturbance to the forest.
	What is Lantana?
	 Lantana is a genus of about 150 species of perennial flowering plants.
	• They are native to tropical regions of the Americas and Africa.
	• They exist as an introduced species in numerous areas, especially in the Australian-
	Pacific region, South and Northeastern part of India.
	Why is lantana a problem?
	 It is a serious economic pest to the citrus industry.
	 It is a serious economic pest to the citrus industry. In many frost-free regions it has become an invasive nuisance, crowding out grazing
	 It is a serious economic pest to the citrus industry.
	 Situated between the Western and Eastern Ghats the Biligiri Rangaswamy Temple (BRT) Tiger Reserve is based in south eastern Karnataka, at the border of Tamil Nadu. It has been named after the Rangaswamy temple that is embellished with a whitish rock at the helms of the sanctuary. It was declared as a protected reserve in the Wildlife Protection Act of 1972. This unique sanctuary exhibits scrub, dry deciduous, moist deciduous, evergreen, semi evergreen and shola forests. It is widely known for its many endemic species of plants including valuable medicinal ones.
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Olive Ridley	Context Scientists have resumed tagging of Olive Ridley turtles at Rushikulya rookery along the Odisha coast
	 Key takeaways Researchers of the Zoological Survey of India (ZSI) are carrying out tagging of the Olive Ridleys at three mass nesting sites — Gahirmatha, Devi River mouth and Rushikulya. The tagging would help them identify the migration path and places visited by the marine reptiles after congregation and nesting. The study would also reveal the inter-rookery movement of turtles in Odisha. The metal tags affixed to turtles are non-corrosive and they do not harm their body. The tags are uniquely numbered containing details such as the name of the organisation, country-code and email address. About Olive Ridley The Olive Ridley sea turtle is the most abundant of all sea turtles found in the world. It is found in warm and tropical waters, primarily in the Pacific and Indian Oceans. It is best known for their unique mass nesting called arribada, where thousands of females come together on the same beach to lay eggs.
	IUCN status: Vulnerable.
Year End Review: Ministry of Environment, Forest and Climate Change	 A. Sustainable Development Goals (SDGs) The UN General Assembly in its 70th Session considered and adopted the 17 Sustainable Development Goals (SDGs) and associated 169 targets for the next 15 years. The 17 SDGs came into force with effect from 1st January, 2016. Though not legally binding, the SDGs have become de facto international obligations and have potential to reorient domestic spending priorities of the countries during the decade ending 2030. The SDG 13, 15 and 12 have been mapped majorly to Ministry of Environment, Forest and Climate Change. Significant strides have been made in achieving
	 SDG 13 (Urgent action to protect against Climate Change and its impact) - 24% reduction in emission intensity of GDP against 2005 levels has been achieved in 2016 itself. India has emphasized that Climate Finance from developed countries as promised in the Paris agreement is integral to achieve this goal. Country's pledge on land degradation neutrality and intense afforestation are helping the country move towards SDG 15(Sustainable use of terrestrial Ecosystems and prevention of Biodiversity Loss). The commitment of the country in implementing the Extended Producer responsibility in plastics and ratification of Basel Convention to monitor hazardous substances is a remarkable step in moving towards SDG12 for ensuring sustainable production and consumption patterns. The 2030 Agenda also underscored that quality, reliable and disaggregated data will be needed for measurement of progress and to ensure that "No One is Left Behind". MoEF&CC is strengthening its data systems for realistic monitoring of progress on the sustainable development goals. Climate Change

•	 Took part in the 26th Session of the Conference of Parties (COP-26) to the United Nations Framework Convention on Climate Change (UNFCCC) was held in Glasgow, United Kingdom for green net zero program India's non-fossil energy capacity to reach 500 GW by 2030 India will meet 50 per cent of its energy requirements with renewable energy by 2030.
	 India will reduce its total projected carbon emissions by one billion tonnes from now to 2030. India will reduce the carbon intensity of its economy by 45 per cent by 2030,
	over 2005 levels.
•	 By 2070, India will achieve the target of net zero emissions. The transfer of climate finance and low-cost climate technologies have become more
	important for implementation of climate actions by the developing countries. The ambitions on climate finance by developed countries cannot remain the same as they were at the time of Paris Agreement in 2015 and the Indian Delegation mentioned through multilateral negotiations with major countries for adoption of greener norms in the global scenario.
•	The Glasgow Climate Conference adopted decisions, which inter-alia, include adoption
	of an overarching decision titled "Glasgow Climate Pact" that stresses the urgency of enhancing ambition and action in relation to mitigation, adaptation and finance in this
	critical decade to address the gaps in the implementation of the goals of the Paris
	Agreement. • Noted that the goal of developed country Parties to mobilize jointly USD 100
	billion per year by 2020 has not yet been met.
	• The COP 26 outcome also include completion of work related to rules,
	procedures, and guidelines for the implementation of the Paris Agreement including that for cooperative approaches, mechanisms and non-market approaches referred to in Article 6, enhanced transparency framework, and common timeframes for Nationally Determined Contributions (NDCs) and it was discussed with Ministers and Representatives from United Kingdom, Scotland, South Korea, Australia, BASIC countries, Nepal, Bhutan, Maldives, France, Canada, Brazil, USA, UAE, Germany, Norway, Singapore, Jamaica, Sweden, and Japan.
	also with representatives from United Nations Environment Programme, United Nations Convention to Combat Desertification, and Green Climate Fund.
С.	PARIVESH
•	In pursuant to the spirit of 'Digital India' and capturing the essence of Minimum Government and Maximum Governance, a Single-Window Integrated Environmental Management System named PARIVESH (Pro-Active and Responsive facilitation by Interactive, Virtuous and Environmental Single Window Hub) has been developed by the Ministry of Environment, Forest and Climate Change for complete online, expeditious and transparent system for environment, forest, wildlife and CRZ clearances in the country.
•	The facility is operational for processing of applications for Environmental Clearances (ECs), Forest Clearances (FCs), Coastal Regulatory Zone Clearances (CRZ).
D.	Nagar Van Yojana
•	Aim: Developing 400 Nagar Vans and 200 Nagar Vatikas with the objective to significantly enhance the tree outside forests and green cover in cities leading to better environment, enhancement of biodiversity and ecological benefits to the urban and peri-urban areas apart from improving quality of life of city dwellers.
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 School Nursery Yojana: To associate students in the process of raising plantations as part of their learning and by providing an environment for the students to understand and appreciate the significance of plants in maintaining and sustaining the natural ecosystem. Compensatory Afforestation Fund Management and Planning Authority (CAMPA) The "National Compensatory Afforestation Fund Management and Planning Authority" (National Authority) came into existence in place of the Ad-hoc CAMPA; the day the Compensatory Afforestation Fund (CAF) Act, 2016 and CAF Rules, 2018 came into force. The National Authority manages and utilises the "National Compensatory Afforestation Fund" (National Fund), which has been created under the public account of India.
 The other fund at the State/UT level is known as "State Compensatory Afforestation Fund" under the public accounts of respective States/UTs. CAF collected against approvals under the Forest (Conservation) Act, 1980 is distributed in the ratio of 90:10 between the concerned State Fund and National Fund and are made available to the National Authority and respective State Authorities through budgetary process.
 F. Wildlife The project Dolphin and the project lion have been initiated and the associated environmental impact of this are also strengthen at the major sanctuary and forest areas for cleaner Environmental Protection of endangered species. The Protected Area coverage in the country has been steadily increasing. The coverage of Protected Areas which was 4.90% of country's geographical area in 2014 has now increased to 5.03%. This includes an increase in Protected Areas in the country from 740 with area of 1,61,081.62 sq.kms. in 2014 to present 981 with an area of 1,71,921 sq.kms. Population of several species like Tiger, Asiatic Lion, Greater one Horned Rhinoceros, Asian elephants, etc. increased. Wildlife health is being addressed to aggressively
 monitor zoonotic diseases. India has taken a leadership role in conservation of migratory birds along the Central Asian Flyway The Ministry has released 'Guidelines for sustainable ecotourism in forest and wildlife areas-2021 in October 2021. These guidelines emphasise on participation of local community in ecotourism activities.
 G. Biodiversity Conservation India enacted the Biological Diversity (BD) Act in 2002, and notified the Rules in 2004, through an extensive consultative process initiated in 1994. India was one of the first few countries to have enacted such a comprehensive legislation on biodiversity. The Act is implemented through a three-tier institutional mechanism, at national, state and local levels: The National Biodiversity Authority (NBA) at the national level set up by the Government of India, State Biodiversity Boards set up by the State Governments at the State level, and Biodiversity Management Committees (BMCs) constituted by the elected bodies at the local level. The Convention on Biological Diversity (CBD) will hold its second part of the 15th Conference of the Parties (COP 15) in Kunming, China in 2022 in which delegates will come together to adopt a "Post-2020 Global Biodiversity Framework". The vision for proposed framework is that "By 2050, biodiversity is valued, conserved, restored and wisely used, maintaining ecosystem services, sustaining a healthy planet and delivering benefits essential for all people. 2021 is viewed as a decisive year on biodiversity action. India joined High Ambition Coalition for Nature and People which calls for protecting at least 30 percent of world's land and ocean by 2030 where India has already reported about 27% of area as conserved under Aichi Target 11 to CBD. The Biological Diversity (Amendment) Bill, 2021 is being introduced to simplify, streamline and reduce compliance burden in order to encourage conducive

environment for collaborative research and investments, simplify patent application process, widen the scope of levying access and benefit sharing with local communities and for further conservation of biological resources, without compromising the objectives of United Nation Convention on Biological Diversity and its Nagoya Protocom
 and also national interests.' National Biodiversity Authority: National Biodiversity Authority, a statutory body of the statutory body o
Ministry of Environment Forest and Climate Change established to implement the Biological Diversity Act, 2002 has ensured that 28 State Biodiversity Boards, 8 Union Territory Biodiversity Councils and 2,76,156 Biodiversity Management Committees have been constituted in all local bodies to implement the provisions of the Act.
 The BD Act envisages its implementation through consultation with loc communities living in forest and rural areas.
 India is a leading country in issuing Internationally Recognized Certificate of Compliance (IRCC) which recognizes stakeholders for legally accessing biologic resources.
 22 Biodiversity Heritage Sites have been notified by 12 State Governments ar 159 plants and 175 animals have been notified as threatened species in 18 state and 2 Union Territories.
 Seventeen institutions of national importance have been recognized as nation Repositories for preserving voucher specimens of biodiversity H. Wetland
 The number of Ramsar sites (Wetlands of International Importance) in India have
increased to 47 covering an area of 10,90,230 hectares which include 21 new site
designated during 2019-2021.
 India has the largest number of Ramsar sites in South Asia.
 Health cards prepared for 500 wetlands under the four pronged approach for conservation of wetlands.
I. Vienna Convention, Montreal Protocol to Protection of Ozone
The Ozone Cell of the Ministry of Environment, Forest and Climate Change is the national ozor unit for implementation of the Montreal Protocol in India and phase out of substance controlled under the Montreal Protocol.
 After successfully phasing out chlorofluorocarbons, carbon tetrachloride, halor methyl bromide and methyl chloroform for controlled uses, India is now phasing o hydrochlorofluorocarbons as per the accelerated phase out schedule of the Montre Protocol
• The Government of India ratified the Kigali Amendment to the Montre Protocol to phase down Hydrofluorocarbons.
and other products, which even though do not deplete the stratospheric ozor layer, they have high global warming potential ranging from 12 to 14,000.
 As per the Kigali Amendment, to the Montreal Protocol, India will complete its phase down of Hydrofluorocarbons in 4 steps from 2032 onwards with cumulative reduction of 85% of production and consumption of HFCs by 2047.
 The Ministry of Environment, Forest and Climate Change has developed and launche the India Cooling Action Plan (ICAP) during March 2019, to provide an integrated visio towards cooling across sectors encompassing inter alia reducing cooling deman refrigerant transition, enhancing energy efficiency and better technology options wi a 20-year time horizon.
 Space cooling in buildings being the most important and can significant contribute to achieving the goals in the ICAP, has been prioritized for the statement of th

	 Action points for implementation of the recommendations for Space Cooling in Buildings was finalized and launched on the World Ozone Day held on 16th September 2021.
	 Preparation of Stage-III of HPMP has been initiated, to the implemented from 2023-2030, after securing funding from the Multilateral Fund for preparation of project proposal.
J.	National Clean Air Program
	 Ministry of Environment, Forest and Climate Change (MoEF&CC) is implementing National Clean Air Programme (NCAP) for reducing levels of air pollution in non- attainment cities (NACs) of the country since January 2019. NCAP is implemented in targeted 132 cities.
	 A Commission on Air Quality Management in NCR and Adjoining Areas (CAQM) has been constituted by enactment of an Act by Parliament for better coordination, research, identification and resolution of problems surrounding the air quality index and for matters connected therewith or incidental thereto.
К.	Avoiding Use of Single Use Plastics and Efficient and Effective Management of Plastic
Was	ste.
	• To enhance the efficacy implementation of PWMR, the Ministry has notified the Plastic Waste Management Amendment Rules, 2021 which also prohibits identified single use plastic items, which have low utility and high littering potential, by 2022.
	 As per the notification, the manufacture, import, stocking, distribution, sale and use of 12 identified single-use plastic items including polystyrene and expanded polystyrene, commodities shall be prohibited with effect from the 1st of July, 2022.
	 The thickness of plastic carry bags has been increased from fifty microns to seventy-five microns with effect from 30th September, 2021, and to one hundred and twenty microns with effect from the 31st December, 2022.
	 The Ministry has organized "Awareness Campaign on Single Use Plastic – 2021". The States/UTs have been requested to constitute a Special Task Force under Chairpersonship of Chief Secretary/Administrator for elimination of single use plastics and effective implementation of Plastic Waste Management Rules, 2016. 31 Task Forces have been formed.
	• The Ministry of Environment, Forest and Climate Change has notified the draft Regulations on the Extended Producer Responsibility for plastic packaging under Plastic Waste Management Rules, 2016, as amended from time to time on 6th October 2021 for public consultation.
L.	Combating the Land Degradation, Desertification and Drought:
	 India committed to achieve Land Degradation Neutrality and restoration of 26 million hectares of degraded land by 2030, which includes 21 million hectares of Bonn Challenge and additional commitment of 5 million hectares as voluntary commitment.
	 India presently holds the Presidency of UNCCD COP for 2 years till April 2022. Prime Minister attended the High level Dialogue on desertification, land degradation and drought of United Nations General Assembly, held on 14th June 2021 highlighting the initiatives taken by India on combating Land Degradation.
м.	Integrated Coastal Zone Management
	• Blue Economy is one of the thrust areas of the Government for sustainable development of coastal resources.
	• The development is in due consideration of Conservation & protection of coastal and marine resources, Pollution abatement measures, Management of coastal and Marine ecosystem, Livelihood enhancement with security of coastal community, Capacity building and will also comprehend Sustainable development goals.
	• 10 beaches in 7 States and One Union Territory, have been developed at par with international Standards and has been conferred with prestigious Blue Flag certification

	for its environmentally sound management and ecological sustainable infrastructures with adequate safety measures. This has resulted in better waste management maintaining bathing water quality, self-sustaining solar energy-based infrastructure containing marine littering, enhancing local level livelihood options and increased tourist based economy.
Indian pangolin	 Context The Odisha Forest and Environment Department has completed its first-ever radio tagging of the Indian pangolin in an attempt to standardise the rehabilitation protocol for the animal in the State. Key takeaways
	 Aa radio-tagged Indian pangolin was released into the wild in Nandankanan Wildlife Sanctuary following soft release protocols and provision for post-release monitoring After Madhya Pradesh, Odisha is the second State in the country to release a radio tagged Indian pangolin into the wild Indian Pangolin
	 Has thick scaly skin Hunted for meat and used in traditional Chinese medicine. Pangolins are among the most trafficked wildlife species in the world. Indian pangolin is the largest among eight pangolin species. Out of the eight species of pangolin, the Indian and the Chinese pangolins are found ir India. Both these species are listed under Schedule I Part I of the Wildlife (Protection) Act 1972. The nocturnal animal lives in burrows and feed on ants and termites.
	 Indian Pangolin: Endangered Chinese Pangolin: Critically Endangered

	GEOGRAPHY AND PLACE IN NEWS
Cyclone Jawad	 In news: The India Meteorological Department (IMD) noted that a well-marked low-pressure area currently lies over the southeast Bay of Bengal, and it is expected to move west northwestwards and intensify into a depression during the next 12 hours. The depression will then moves northwestwards and turn into a cyclonic storm over the central parts of Bay of Bengal in the subsequent 24 hours. This cyclonic storm – known as cyclone Jawad is expected to reach the coast of Andhra Pradesh and Odisha on December 4 mornings.
	Cyclones:
	 Tropical cyclones are violent storms that originate over oceans, in tropical areas and move over to coastal areas bringing about large scale destruction caused by violent winds very heavy rainfall and storm surges. A cyclone consists of a low-pressure area with high pressure all around. Tropical cyclones are generated in regions of near zero horizontal temperature gradient. Tropical cyclones require very low values of tropospheric vertical shear in order to form and grow.
	They have large diameters.
	How are cyclones forecast?
	• Over the years, India's ability to track the formation of cyclones has improved
	significantly.
	 Radar Network: There is a network of 21 doppler weather radars (DWR) in the country (12 along the coast). Depending on where a storm is forming, these radars send pulses of radio waves to gauge the size as well as the speed at which water droplets are moving.
	 Real time feedback: The earlier generation of radars was unable to track such progress in real time, but with DWRs, now the base standard of weather radars, it is usually possible to detect a potential storm at least four-five days in advance.
	 International Collaborations: The IMD also collaborates with similar international networks, such as the Japan Meteorological Agency, the U.S. National Hurricane Center, and the U.S. Central Pacific Hurricane Center, and these bodies constantly send warnings and forecasts about changes in the ocean weather.
	 Technologies that supplement radars: The near ubiquity of ocean-buoys that track
	changes in ocean sea surface temperatures as well as dedicated meteorological satellites improve the odds of early detection
Loktak Inland	In News: Union Minister of Ports, Shipping & Waterways and AYUSH inspected the Inland
Water ways	Waterways of India (IWAI) Jetty at the iconic Loktak Lake.
project	Loktak Lake
	 The only floating national park in the world
	 The largest fresh water lake in North east located at Moirang in Manipur.
	One of the largest water bodies in Asia and its beauty, greenery, marine life, surrounded
	by blue mountains stand out.
	 Loktak Lake is famous for the phumdis floating over it. Phumdis are a series of floating islands of entangled vegetation formed by the accumulation of error debris and
	islands of entangled vegetation formed by the accumulation of organic debris and biomass with soil, exclusive to the Loktak Lake in Manipur. Its thickness varies from few
	centimeter to two meters. The humus of phumdi is black in colour and very spongy with
	large number of pores. It floats with 4/5 part under water.
	• It has been designated as a wetland of international importance under the Ramsar
	Convention in 1990.

	• It is also listed under the Montreux Record in 1993, "a record of Ramsar sites where changes in ecological character have occurred, are occurring or are likely to occur".
More cyclones in Arabian Sea	Context The frequency of "very severe <u>cyclonic</u> storms" has increased in recent years over the Arabian Sea.
	• However, this has not measurably increased the threat to India's western coast, as most of these cyclones were making landfall in Oman and Yemen.
	• A very severe cyclone is defined as one with wind speeds touching 220 kmph. It is the fourth highest category of cyclones
	The eastern coast remained far more vulnerable to "extremely severe cyclones" than the western coast
	 On an average, 60%-80% of the cyclones developing over the North Indian Ocean (NIO), comprising the Bay of Bengal and the Arabian Sea, made landfall causing loss of life and property.
	 Low-lying coastal belts of West Bengal, Odisha, Andhra Pradesh and Tamil Nadu and Puducherry were more prone to the impact of these systems
Super Typhoon	Context Super Typhoon Rai has hit the Philippines.
Rai	About Typhoon
	 Typhoon and hurricane are two of the regionally specific names for strong tropical cyclones
	• Tropical cyclones are rotating, organized systems of clouds and thunderstorms that originate over tropical or subtropical waters and have closed, low-level circulation.
	 What a tropical cyclone gets called is determined by the ocean it forms over and how severe it becomes.
	 In the North Atlantic, central North Pacific, and eastern North Pacific, tropical cyclones are called hurricanes.
	 In the Northwest Pacific, they are known as typhoons.
	Super Typhoon
	 Since 2009 the Hong Kong Observatory has divided typhoons into three different classifications: typhoon, severe typhoon and super typhoon.
	 A typhoon has wind speed of 118–149 km/h, a severe typhoon has winds of at least 150 km/h, and a super typhoon has winds of at least 190 km/h.
Samudrayaan	Context: Under the Deep Ocean Mission launched by the Government of India, a manned
Project	scientific submersible has been proposed to be developed for deep ocean exploration and mining of rare minerals. The project is named as Samudrayaan.
	 National Institute of Ocean Technology (NIOT), an autonomous Institute under the Ministry of Earth Sciences, had developed and tested a 'personnel sphere' for a manned submersible system for 500 metre water depth rating.
	 Personnel Sphere of 2.1m diameter to be used as a crew module up to 500 m water depth has been developed using mild steel and tested up to 600 m water depth in the
	 Bay of Bengal using the research Vessel Sagar Nidhi during October, 2021. One Titanium alloy personnel sphere for manned submersible system for 6000 metre
	water depth rating, is under development
Kalanamak rice	Context: Production of Kalanamak rice has increased significantly during last three years
	Presently, Kalanamak rice is being exported to countries like Singapore and Nepal. In addition to export, it is available on e-market place like Amazon, Flipkart and ODOP e-market.
	 One of the finest quality scented rices of Nepal and India.
	 Kalanamak rice has been granted the Geographical Indication (GI) Tag
	 It derives its name from black husk (kala = black; the suffix 'namak' means salt).
	 This variety has been in cultivation since the Buddhist period (600 BC).
	 It is quite popular in Himalayan Tarai of Nepal i.e., Kapilvastu, and eastern Uttar Pradesh
	of India, and is also known as the scented black pearl of Uttar Pradesh.

	 It was also featured in the book 'Speciality rices of the world' by Food and Agriculture Organization of the United Nations. Rich in micro-nutrients such as Iron and Zinc. Therefore, having this rice is said to prevent diseases borne out of Iron and Zinc deficiencies. is said that regular intake of Kalanamak rice can prevent Alzheimer's disease. It has 11% protein which is almost double of common rice varieties. Besides it has low Glycemic Index (49% to 52%) making it "Sugar Free" and suitable for even diabetic people. Have critical micro nutrients to fight malnutrition and improve nutrition status of the united regular of consist.
Chillai Kalan	 vulnerable section of society Context Kashmir is in a deep freeze as the 40-day harshest spell of winter, locally called 'chillal kalan', started on December 21, 2021. The minimum temperature already reached sub-zero in the entire Valley. What is Chillai Kalan? Chillai Kalan is a Persian word which literally means forty days of intense cold. It is the local name given to 40 day period of harsh winter in Kashmir. It is the coldest part of winter, starting from 21 December to January 29 every year. Chillai-Kalan is followed by 20-day long Chillai Khurd (small cold) and a 10-days long Chillai Bachha (baby cold). Impact of Chillai Kalan on daily life of Kashmiris: Use of Pheran (Kashmiri dress) and a traditional firing pot called Kanger increases. Due to subzero temperature, tap water pipelines freeze partially during this period and world-famous Dal Lake also freezes.
National Mission on Edible Oils - Oil Palm (NMEO- OP)	 Context: The National Mission on Edible Oils - Oil Palm (NMEO-OP) has been launched with the aim to augment the availability of edible oil in the country by harnessing area expansion, increasing crude palm oil production with the aim to reduce the import burden. Objective: To ensure self-sufficiency in edible oil production. Aim: To reduce import dependence from 60% to 45% by 2024-25, by increasing domestic edible oil production from 10.5 million tonnes to 18 million tonnes which is a 70% growth target. Farmers will get all needed facilities, from quality seeds to technology. Along with promoting the cultivation of oil palm, this mission will also expand the cultivation of our other traditional oilseed crops. What is the need for such schemes? India is the largest consumer of vegetable oil in the world. India's Palm oil imports are almost 60% of its total vegetable oil imports. Recently, India's dependence on expensive imports has driven retail oil prices to new highs. In India, 94.1% of its palm oil is used in food products, especially for cooking. Thus, palm oil is extremely important to India's edible oils economy. The oil is used in food manufacturing, in beauty products, and as biofuel. Palm oil accounted for about 33% of global oils produced from oil crops in 2014. Top consumers: India, China, and the European Union (EU).

PAIKA REBELLION	In News: Government has clarified that the 1817 Paika rebellion of Odisha could not be called
OF ODISHA	the first war of Independence, but can be considered it as a beginning of a popular uprising against the British and will included as a case study in the Class 8 NCERT history textbook.
	About:
	The Culture Ministry had received a reference from the Odisha Chief Minister asking
	that the Paika rebellion be declared the first war of Independence.
	 The ministry said the matter was examined in consultation with the Indian Council of
	Historical Research, under the Union Education Ministry, and according to the
	comments by the Indian Council of Historical Research, the Paika rebellion could not
	be called the first war of Independence.
	• However, from a historical point of view, it can be said that the 'Paika Bidroha', which
	was set off in March 1817 and continued until May 1825, had set an example for the
	classes as well as the masses in India to follow later on.
	About Dailya Daballian
	 About Paika Rebellion The Paikas (pronounced "paiko", literally 'foot soldiers'), were a class of military
	• The Paikas (pronounced "paiko", literally 'foot soldiers'), were a class of military retainers had been recruited since the 16th century by kings in Odisha from a variety
	of social groups to render martial services in return for hereditary rent-free land
	(nish-karjagirs) and titles.
	 The advent of the British and establishment of colonial rule brought new land
	revenue settlements, which led to the Paikas losing their estates mostly to Bengali
	absentee landlords
	• The British changed the currency system, demanding revenue payments in rupees,
	which increased pressure on the dispossessed, marginal tribals.
	• The British control over salt — which had pre-1803-4 origins, but was extended to
	coastal Orissa in 1814 — also meant increased hardship for the people in the region.
	• In 1817, some 400 Kondhs rose in revolt against the British under the leadership of
	Bakshi Jagabandhu Bidyadhar Mohapatra Bharamarbar Rai, the highest-ranking
	military general of Mukund Dev II, and erstwhile holder of the lucrative Rodanga
	estate.
	• Paikas fought bloody battles at several places, but the colonial army gradually
	crushed the revolt.
	Bakshi Jagabandhu escaped to the jungles, and stayed out of reach of the British until
	1825, when he finally surrendered under negotiated terms.
Mahaparinirvana	Context: Observed on the 6th of December every year to mark the death anniversary of Dr
Divas	BR Ambedkar.
	Bhimrao Ramji Ambedkar (14 April 1891 – 6 December 1956), popularly known as Babasabab Ambedkar was an Indian jurist, accommist, politician and social reference
	Babasaheb Ambedkar, was an Indian jurist, economist, politician and social reformer who inspired the Dalit Buddhist movement and campaigned against social
	discrimination towards the untouchables (Dalits), while also supporting the rights of
	women and labour.
	 He was independent India's first law and justice minister, the principal architect of
	the Constitution of India, and a founding father of the Republic of India.
Dr Rajendra	Context: Jayanti of the first President of India, Dr. Rajendra Prasad
Prasad	The first president of India, in office from 1952 to 1962
	 A supporter of Mahatma Gandhi, Prasad was imprisoned by British authorities during
	the Salt Satyagraha of 1931 and the Quit India movement of 1942
	 In his speech before the Constitution was adopted, Dr Rajendra Prasad rightly noted
	that the successful working of democratic institutions requires willingness to respect
	the views of others, and capacity for compromise and accommodation. He said,
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	[quote] "Many things which cannot be written in a Constitution are done by conventions. Let me hope that we shall show those capacities and develop those conventions." [Unquote] Seventy years later, we have reasons to believe that the nation has lived up to his hopes to a fair degree.
Chendamangalam	In News: A serious shortage of yarn and dyes and plummeting sales have pushed the popular
Handloom	Chendamangalam handloom weavers' cooperative societies in Ernakulam district and around a thousand weavers into a serious financial crisis, which now threatens to end up in the closure of at least a few cooperatives.
	About
	 There are four main centres for weaving the traditional handlooms of Kerala – Balaramapuram, Chendamangalam, Kuthampully, Kannur and Kasaragod. Like in other parts of Kerala, weavers in Chendamangalam were under official patronage of the feudal family of Paliam, who served as chief ministers for the Rajas of Cochin.
	 In terms of the actual process, Chendamangalam textiles are woven on frame looms, and their texture is slightly heavier than similar fabrics from Balaramapuram. Chendamangalam are similar to what one finds in Balaramapuram, but with less emphasis on <i>kasavu</i> patterns. Instead, the typical Chendamangalam <i>mundu or settu mundu</i> has coloured borders with a matching colour stripe, and only small amounts of kasavu for ornamentation.
	 In 2010, the Government of Kerala applied for Geographical Indication for Chendamangalam Dhoties, Sarees/Set Mundu. The Government of India recognized it as a Geographical indication officially since the year 2011.
Jyotirlingam	Temples:
Temples of	Trimbakeshwar (Tryambakeshwara): Located about 28 km South West of Nashik and
Maharashtra	it is also one of four places where Sinhastha Fair (Kumbh Mela) is held which draws
	people from all over India. This temple built of black stone in the Nagara style of
	architecture is enclosed in a spacious courtyard
	 Bhimashankar: An ancient Shiva Temple in the Sahyadri Mountain Ranges of Maharashtra. It is also the source of the river Bhima. The temple is closely associated with the legend of Shiva slaying the demon Tripurasura. Shiva is said to have taken abode in the Bhima form, upon the request of the Gods, on the crest of the Sahyadri Hills, and the sweat that poured from his body after the battle is said to have formed the Bhimarathi River. The Temple is built in the Nagara style of architecture.
	 Grishneshwar Jyotirlingam: Situated in Aurangabad, the temple was constructed by Queen Ahilyabai Holkar. It is aslo known as Ghushmeshwar. The archaeological antiquity goes back to the 11th-12th centrury CE. The temple name has been mentioned in Purana literature sucha as Shiva Purana and Padma Purana. It is made from red stone and has a five-tier nagara style shikhara. The statue of Nandi is a bliss to the eyes of the visitors. The UNESCO World Heritage Site – Ellora Caves are very close by about 7-10 minutes' drive from the temple. Aundha Nagnath in Hingoli District of Maharashtra is a 13th –century temple. Aundha Nagnath is supposed to be the finest Jyotirlinga. It is considered to be the first or 'Ádhya' linga supposedly installed by the Pandavas. The temple of 'Nagnath' built in the Hemadpanti style of architecture and has exquisite carvings. The temple was built by Yadavas of Devgiri,

	 Parali Vaijnath: Called Vaidyanath and it was renovated by Rani Ahilyabai Holka The temple is built on a hill using stones. Temple is approximately at a height of 75
	80 feet from ground level.
Durga Puja	Context The 16th Committee of UNESCO for safeguarding of the Intangible Cultural Heritag (ICH) has inscribed DURGA PUJA in KOLKATA on the representative list of Intangible Cultura Heritage of Humanity.
	• This is the 1st festival in Asia to achieve recognition as UNESCO ICH of Humanity.
	 About Durga Puja Durga Puja is an annual Hindu festival originating in the Indian subcontinent whic reveres and pays homage to the Hindu goddess Durga. It is also calabrated because of Durga's vistory over Mabisbasur.
	 It is also celebrated because of Durga's victory over Mahishasur. It is observed in the Indian calendar month of Ashwin, which corresponds t September–October It is a ten-day festival.
	About UNESCO's list of intangible culture
	 It is an annual list which focuses on those forms of performing art which are outstanding value but are vulnerable due to lack of support.
	 Convention for the Safeguarding of the Intangible Cultural Heritage was adopted i 2003. India ratified it in 2007.
	In total, 14 Intangible Cultural Heritage elements from India have now been inscribe on UNESCO's Representative List.
	 This list is made up of those intangible heritage elements that help demonstrat diversity of cultural heritage and raise awareness about its importance.
	 The Ministry of Culture has also launched the draft National List of Intangible Culture Heritage (ICH) of India.
The Chalcolithic	A. Excavation at Eran: Eran (ancient Airikina) is situated on the left bank of the Bina (ancier
cultures of	Venva) river and surrounded by it on three sides.
Central India	• The recent excavation at this site, during 2020-21, has unearthed a variety of
	antiquities including a copper coin, an iron arrowhead, terracotta bead, stone bead
	along with a copper coins, stone celt, beads of steatite and jasper, glass, carnelian terracotta wheel, animal figurines, miniature pots, iron objects, stone querns, pestle and a red slipped terracotta with inscription in Devnagari.
	 The occurrence of few specimens of plain, thin grey ware is noteworthy. The use of iron was evidenced by few metallic objects at the site.
	B. Excavation at Tewar: Tewar (Tripuri) village is located 12 km west of Jabalpur district o Jabalpur – Bhopal highway.
	 During 2020-21 ASI conducted excavation of Tewar at two locations, this excavatio did not reach the natural soil and revealed four folds of cultural sequences i.e Kushana, Shunga, Satvahana, and Kalachuri.
	 Antiquarian remains in this excavation include viz remains of sculptures, hopscotcl terracotta balls, Iron nails, copper coins, terracotta beads, implements of Iron an terracotta figuring, in corrections red ware, black ware, red clipped ware with shapes of
	terracotta figurine, in ceramics red ware, black ware, red slipped ware with shapes of handi, bowl, spouted pot, small pot, big jar, etc., structural remains consist of bric wall and structure of sandstone columns.
Operation Vijay	Context Every year on 19 December, Goa Liberation Day is celebrated as Goa was liberate
	from Portuguese rule on that day in 1961.
	Goa was a Portuguese colony for 451 years.
	About Operation Vijay
	 Goa was taken over by the Portuguese from the Maratha rule in 1641 and the conflic ended in a peace treaty between the Portuguese and Maratha Empire (Bicholir conflict).
	 Goans also participated in Satyagraha in the late 1940s.
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	 After India got independence, the Portuguese refused to give up their hold over Goa. The Indian government under Jawaharlal Nehru in 1961 adopted Operation Vijay to free the Portuguese colonies (Gos, Daman and Diu) in India. The Portuguese surrendered and the coastal state acquired its liberation on
	December 19, 1961.
	• Then Goa was annexed into the Indian Union and became the Union Territory of India along with Daman and Diu.
	 Goa continued to be a Union Territory till 1987 and then was given statehood by becoming the 25th state of India.
150th Birth	Context The Prime Minister chaired the first meeting of the High Level Committee (HLC)
Anniversary of Sri	which has been constituted to commemorate 150th Birth Anniversary of Sri Aurobindo
Aurobindo	Key takeaways
	 The Committee comprises 53 members from various walks of life.
	The Prime Minister said that the two aspects of Sri Aurobindo's philosophy of
	'Revolution' and 'Evolution', are of key importance and should be emphasized as part of the commemoration.
	The commemoration celebrations of Sri Aurobindo were proposed to launch from
	Puducherry coinciding with the celebration of National Youth Day.
	About Sri Aurobindo
	 Sri Aurobindo was an Indian philosopher, yoga guru, maharishi, poet, and Indian nationalist.
	 He was also a journalist, editing newspapers such as Bande Mataram.
	 He joined the Indian movement for independence from British colonial rule, unti 1910 and then became a spiritual reformer.
	 At Pondicherry, Sri Aurobindo developed a spiritual practice called Integral Yoga.
Sahitya Akademi	Context The Sahitya Akademi announced its awards for 2021 for literary works in 20
	languages
	Key takeaways
	 Literary critic D.S. Nagabhushan has been awarded the Kendra Sahitya Akadem award for 2021 for his work Gandhi Kathana, biography of Mahatma Gandhi
	 Award is presented to the most outstanding books of literary merit published in any of the twenty-four major Indian languages recognized by the Akademi (including)
	 English). Sahitya Akademi award is the second highest literary honour by the Government of India, after Jananpith award.
	 The Award in the form of an engraved copper-plaque, and cash prize of Rs. 1,00,000/
	The author must be of Indian Nationality.
	 Indian film-maker Satyajit Ray is the designer of the plaque awarded by the Sahitya Akademi



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	SCIENCE AND TECHNOLOGY
Delays in Army's offloading model	 In News: The Army's ambitious plan for modernisation of the Army Base Workshops (ABWs) and implementation of 'Government-owned, contractor-operated (GOCO)' model is delayed. The original timeline for implementing the system lapsed in December 2019, the Comptroller and Auditor General (CAG) said in its report tabled in the Parliament.
	 About In GOCO model, the assets owned by government will be operated by the private industries. Under the GOCO model, the private companies need not make investments on land, machinery and other support systems. The GOCO model was one of the recommendations of the Lt. Gen. DB Shekatkar committee to enhance combat capability and re-balance defence expenditure. Army Base Workshops (ABWs) carry out repairs and overhaul of weapons, vehicles and equipment of the Army. The GOCO model was meant to modernise the workshops as well free up Army personnel from maintenance work. The implementation of GOCO model is fraught with risks and operational challenges as managing the existing manpower becomes challenging. 385 out of the 1,077 affected civilian manpower of closed stations/static workshops are lying idle and the same situation may arise in ABWs, if these issues are not addressed while implementing the GOCO Model. Audit recommends that the Ministry of Defence formulate a strategy to mitigate all
India-ITU Joint Cyberdrill 2021	 risks, including deployment of existing manpower, relating to GOCO implementation," the CAG said. In News: Department of Telecommunications (DoT) and International Telecommunication Union (ITU) have commenced India-ITU Joint Cyberdrill 2021. It is a four days virtual event starting from 30 November to 3 December 2021 About:
	 This Cyberdrill is intended for Indian entities especially Critical Network Infrastructure operators. Several experts from ITU, United Nations Office on Drugs and Crime (UNODC), INTERPOL, National Security Council Secretariat (NSCS), Indian Computer Emergency Response Team (CERT-In) and other eminent organizations participated in the inaugural session. More than 400 participants participated from critical sectors, namely, power, insurance, finance, CERT-In and CSIRT, industry, academia, telecom service providers and field units of DoT.
ZyCoV-D VACCINE	 India has secured 10th rank in the ITU Global Cybersecurity Index (GCI). In News: Union Government has asked seven States to identify high-priority districts where the three-dose ZyCoV-D vaccine could be launched initially. Bihar, Jharkhand, Maharashtra, Punjab, Tamil Nadu, Uttar Pradesh and West Bengal, will identify the districts with high numbers of people who have not received the first dose, for introduction of ZyCoV-D. The 'Har Ghar Dastak' nation-wide COVID-19 vaccination campaign has resulted in a hike of 5.9% in the first dose coverage [till November 30] and a jump of 11.7% in the second dose coverage has been registered during the campaign.
	 About Zycov-D Zycov-D is a COVID-19 vaccine developed by the Ahmedabad based Zydus Cadilla group and is the first vaccine in India that can be administered to adults as well as those 12 and above.
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	• It's also the only DNA-based vaccine in the world and can be administered without a
	needle, minimizing chances of reactions.
	• The vaccine has been developed in partnership with the Department of Biotechnology under the 'Mission COVID Suraksha'.
	 The three-dose vaccine once administered produces the spike protein of the SARS-
	CoV-2 virus and elicits an immune response.
	• The plug-and-play technology on which the plasmid DNA platform is based can be
	easily adapted to deal with mutations in the virus, such as those already occurring.
	• This is the fifth vaccine, after Covishield, Covaxin, Sputnik V and Moderna to be
	approved for use in India.
S-400 Triumf	In News: A contract has been signed for delivery of S-400 system from Russia.
Missile System	• The S-400 Missile is a potent system in terms of its operational capability to provide
	continuous and effective air defence system to a very large area.
	• With the induction of this system, air defence capability of the nation will be
	significantly enhanced.
	 The system is also known as the 'Triumf' interceptor-based missile system.
	• This risks the possibility of sanctions from the U.S. under the Countering America's
	Adversaries Through Sanctions Act (CAATSA) which would come up for discussion at
	the India-U.S. 2+2 ministerial dialogue, also scheduled for early December.
	What is CAATSA?
	Countering America's Adversaries through Sanctions Act (CAATSA)'s core objective is
	 to counter Iran, Russia and North Korea through punitive measures. Enacted in 2017.
	 Enacted in 2017. Includes sanctions against countries that engage in significant transactions with
	Russia's defence and intelligence sectors.
	What are S-400 Triumf anti-aircraft missile systems?
	• The S-400 Triumf is a mobile, surface-to-air missile system (SAM) designed by Russia.
	• It can simultaneously track numerous incoming objects — all kinds of aircraft, missiles
	and UAVs — in a radius of 400km and launch appropriate missiles to neutralise them.
	• It is the most dangerous operationally deployed modern long-range SAM (MLR SAM)
	in the world, considered much ahead of the US-developed Terminal High Altitude Area
	Defense system (THAAD).
S-Gene Drop Out	In News: The Omicron variant of the SARS-CoV-2 virus has been confirmed in India and in at
	least 30 other countries by the World Health Organization (WHO).
	What is the S-gene drop out?
	• Tests usually look for three target genes related to parts of the virus: S (spike), N2
	 (nucleocapsid or inner area) and E (envelope or outer shell). The S-gene refers to the gene that codes for the spike protein, or the most distinctive
	part of the coronavirus.
	 The SARS-CoV-2, like many other coronaviruses, has key protein-regions that define
	its structure: The envelope protein (E), thenucleocapsid protein(N), the membrane
	protein (M) and the spike protein (S) .
	• To accurately identify the virus, diagnostic tests are made that can identify
	characteristic genes that make these proteins.
	• While the variant can only be reliably confirmed with genome sequencing, the WHO
	has also recommended that certain commonly used COVID-19 detection tests, with 'S-
	gene dropout' capabilities, can be used to quickly screen for an Omicron infection.
Rice Fortification	What is food fortification?
	• According to the WHO, fortification is the process of increasing the content of an
	essential micronutrient, such as vitamins or minerals, in a food item to improve its
	nutritional value and provide public health benefits at minimal cost.

	It has minimal effects on taste and cooking properties while at the same time adding
	multiple nutrients to cure multiple deficiencies.
	 It also has minimal behaviour change, unlike supplements.
	 For example, milk is often fortified with vitamin D, and calcium may be added to fru juices.
	 Rice is the fifth item to get the government's fortification push after salt, edible oi milk and wheat.
	How to fortify rice?
	 According to the norms of the Food and Safety Standards Authority of India, 1 kg of fortified rice must contain iron (28mg-42.5mg), folic acid (75-125 mg) and vitamin E 12 (0.75-1.25mg).
	 Usual milled rice is low in micronutrient content because its nutrient-rich superficial layer is removed during rice milling and polishing operations. This makes the grai
	taste better and visually appealing but less nutritious.
	 Rice can be fortified by adding a micronutrient powder containing iron, folic acid an other B-complex vitamins, vitamin A and zinc, which then sticks to the grains.
	The Significance
	 Malnutrition especially <u>child malnutrition</u> is a major threat to the growth an development of children.
	 According to a National Family Health Survey report, India has the larges burden of iron-deficiency and anaemia worldwide.
	 About 59% of children and 50% of pregnant women are anaemic in India. Child and maternal malnutrition accounts for 15% of India's total diseas
	 burden. The country reportedly loses around 1 per cent of GDP (Rs 1.35 lakh crore
	every year due to iron-deficiency anaemia.
	 Micronutrient deficiencies or <u>hidden hunger</u> also continue to pose significant publi health problems in Indian populations.
	 Therefore, the decision to fortify rice was taken to address the malnutrition and lac of essential nutrients especially among poor women and poor children.
	 Government distributes more than 300 lakh tonnes of rice to 81 crore people under schemes covered under National Food Security Act (NFSA), 2013.
New Food	Context: The Food Processing Sector has emerged as an important segment of the India
Processing	economy and it constitutes as much as 9.9 percent and 11.4 percent share of GVA i
Policy	
,	Manufacturing and Agriculture sector respectively in 2019-20 at 2011-12 prices.
	Key challenges facing the sector are-
	 Supply chain infrastructure gaps
	 Institutional gaps
	 Relatively low level of processing
	Technological gaps
	 Lack of seamless Linkage between Agri-Production and Processing
	Credit availability gaps
	The draft National Food Processing Policy lays down strategy for unhindered growth o
	the sector by addressing these challenges through
	Convergence of services provided by different Ministries / Departments
	 Focused interventions for improving competitiveness
	 Promotion of India's Unique Selling Proposition (USP)
	 Strengthening unorganized food processing units

	 Increased access to institutional credit at affordable cost
	Some of the key objectives of the draft policy are-
	Attaining a higher growth trajectory through significant increase in investment for
	strengthening supply chain infrastructure and expansion of processing capacity
	particularly in perishables;
	 Improving Competitiveness through technology upgradation, Research
	& Development, Branding and strengthening India's USP in food sector;
	Attaining long term sustainability in growth of the sector through efficient use of
	water, energy, adoption eco-friendly technology in processing, storage, packaging
	and use of waste from FPI industry.
WHO and	Context The WHO has said The Omicron coronavirus variant is more transmissible than the
Omicron	Delta strain.
	 It also reduces vaccine efficacy but causes less severe symptoms according to early data.
	 Faster transmission was noted in South Africa, where Delta is less prevalent, and in Britain, where Delta is the dominant strain.
	About Omicron
	 It is a variant of Coronavirus detected first in South Africa.
	 This variant has been detected at faster rates than previous surges in infection,
	suggesting tha <mark>t this variant may have a g</mark> rowth advantage.
	 WHO also noted current PCR tests continue to successfully detect the variant.
	 While medical experts warned against any overreaction before the variant was better
	understood, nations have raced to halt air travel, markets fell sharply and scientists
	held emergency meetings to weigh the exact risks
Successful Test	In News: Defence Research and Development Organisation (DRDO) and Indian Air Force (IAF)
Launch of Stand- off Anti-tank	flight-tested the indigenously designed and developed Helicopter launched Stand-off Anti-
(SANT) Missile	tank (SANT) Missile from Pokhran ranges successfully.
(SANT) WISSIE	 Equipped with a state-of-the-art MMW seeker which provides high precision strike
	capability from a safe distance. The weapon can neutralise targets in a range up to 10
	kms.
	 This is the third in the series of indigenous stand-off weapons to be tested in recent
	times after long range bomb and smart anti airfield weapon for strengthening the
	arsenal of IAF. The indigenous development of various configurations for different
	applications with advanced technologies is a firm march towards 'Aatmanirbharta' in defence.
Successful	In News: Defence Research and Development Organisation (DRDO) developed supersonic
Launch of	missile assisted torpedo system was successfully launched from Wheeler Island in Odisha
Supersonic	• The system is a next generation missile-based standoff torpedo delivery system.
Missile assisted Torpedo System	 Designed to enhance anti-submarine warfare capability far beyond the conventional
	 Designed to enhance anti-submanne warrare capability far beyond the conventional range of the torpedo.
	• This canister-based missile system consists of advanced technologies viz. two stage
	solid propulsion, electro-mechanical actuators and precision inertial navigation.
	 The missile is launched from ground mobile launcher and it can cover a range of distances.
Armed Forces	Context After a recent killings of Nagaland civilians by 21 Para Commando unit in Nagaland's
(Special Powers) Act	Mon district, its Chief Minister Neiphiu Rio has called for scrapping of the Armed Forces (Special Powers) Act (AFSPA)

	What is the Armed Forces (Special Powers) Act (AFSPA)?
	 It is a Parliamentary act that grants special powers to the Indian Armed Forces and th state and paramilitary forces in areas classified as "disturbed areas".
	 Objective: To maintain law and order in the disturbed areas
	 Section (3) - If the governor of a state issues an official notification in The Gazette of India then the Central government has the authority to deploy armed forces for assisting the civilian authorities.
	 Section (4) - Special powers to army officers in disturbed areas to shoot any individual who violates law or is suspected to violate law. The only condition is that the office has to give a warning before opening fire.
	 Security forces can arrest anybody even without a warrant, and carry out searche without consent.
	 Once a person is taken into custody, he/she has to be handed over to the neares police station as soon as possible.
	 Prosecution of the officer on duty for alleged violation of human rights requires th prior permission of the Central Government. Demand for Revocation of AFSPA in the past
	 BP Jeevan Reddy committee examining it in relation to the Northeast in 2005, and the Veerappa Moily report of the Second Administrative Reforms Commission of 2007 recommended that the Act be repealed.
	States and union territories under AFSPA
	• Throughout As <mark>sam and Nagaland.</mark>
	 In Manipur with the exception only of the municipal area of Imphal.
	 AFSPA has been withdrawn from Mizoram, Tripura and Meghalaya.
	 Operational in some areas of Kashmir valley. Context According to the study by researchers from the LKS Faculty of Medicine at the study by researchers from the LKS Faculty of Medicine at the study by researchers from the LKS Faculty of Medicine at the study by researchers from the LKS Faculty of Medicine at the study by researchers from the LKS Faculty of Medicine at the study by researchers from the LKS Faculty of Medicine at the study by researchers from the LKS Faculty of Medicine at the study by researchers from the LKS Faculty of Medicine at the study by researchers from the LKS Faculty of Medicine at the study by researchers from the study by researchers
Omicron slow to	University of Hong Kong, the Omicron variant of SARS-CoV-2 infects and multiplies faster tha
infect the lungs:	
Hong Kong study	the Delta variant and original SARS-CoV-2 in the human bronchus.
	• The study may explain why it may transmit faster between people than previou
	variants.
	Key findings of the study
	 Omicron does not easily infect the lower lungs and this potentially explains wh instances of severe disease are lower in cases involving Omicron.
	 Omicron replicated around 70 times higher than the Delta variant and the origin SARS-CoV-2 virus over 24 hours.
	 In contrast, the Omicron variant replicated less efficiently (more than 10 times lowe in the lung tissue than the original SARS-CoV-2 virus.
	• The severity of disease is not determined only by virus replication but also by the holimmune response, which may lead to dysregulation of the innate immune system.
	By infecting many more people, a very infectious virus may cause more severe diseas
	and death even though the virus itself may be less pathogenic.
Covovax	Context The WHO said it had granted emergency approval to the India-manufacture
	coronavirus vaccine Covovax.
	Key takeaways
	The vaccine is produced by the Serum Institute of India under licence from the U.S based Novavax.
	• It will now be distributed as part of global vaccine-sharing system COVAX .
	 Covovax requires two doses and is stable at 2 to 8 degrees Celsius refrigerate temperatures.
	What is COVAX?

	 The COVAX program is led by the vaccine alliance GAVI, WHO and the Coalition for Epidemic Preparedness Innovations (CEPI) in partnership with UNICEF, vaccine manufacturers and the World Bank, among others. Aim: To ensure equitable distribution of COVID-19 vaccines globally It is supposed to be the largest vaccine procurement and supply operation in history. The program wants to vaccinate roughly 20% of the population in the 92 Advance Market Commitment (AMC) countries, which include middle and lower-income nations that cannot afford to pay for COVID-19 vaccines.
	Context The Breastfeeding Promotion Network of India (BPNI), in collaboration with the
Baby Friendly Hospital Initiative (BFHI)	Association of Healthcare Providers of India (AHPI) has launched an accreditation programme that will enable hospitals to get a "breastfeeding-friendly" tag. Key takeaways
	• This programme is called "Baby Friendly Hospital Initiative (BFHI)".
	 The BFHI programme is a worldwide programme of the WHO and UNICEF. Chennai's Bloom Healthcare has become the first hospital to be recognised as "breastfeeding-friendly" under this programme.
	 The initiative is only for private hospitals and is based on the Ministry of Health and Family Welfare's MAA programme for government hospitals launched in 2016. Process: The certification process involves two stages — the first stage includes self-assessment by a hospital, followed by an external assessment by an authorised appraiser
	Breastfeeding status in India
	 Early initiation of breastfeeding continues to be low in the country. According to the National Family Health Survey-5 (2019-2021), while there were 88.6% institutional births, only 41.8% of infants were breastfed within the first one hour. In fact, many States such as Maharashtra, Karnataka, Gujarat, Uttar Pradesh, Jharkhand and Chhattisgarh have shown a decline in the proportion of children breastfed within the first hour
Mormugao:	Context Mormugao, Indian Navy's second indigenous stealth destroyer of the Project 15B
Indian Navy's indigenous	class, planned to be commissioned in mid-2022, proceeded on her maiden sea short trip recently.
stealth	About Mormugao
destroyer	 Mormugao is being built at Mazagon Dock Shipbuilders Ltd (MDSL) as part of the Project 15B destroyers.
	 Mormugao will add significantly to the Indian Navy's combat capabilities. With the recent commissioning in November 2021 of INS Visakhapatnam and the fourth P75 submarine INS Vela, sea trials of Mormugao are testimony to the indigenous shipbuilding tradition of India.
	About P-15B
	 The Visakhapatnam-class destroyers or simply P-15B, is a class of guided-missile destroyers currently being built for the Indian Navy. Designed by the Directorate of Naval Design, a total of four ships are being built by
	Mazagon Dock Limited (MDL).
	 The four ships are named after major cities from all four corners of the country — Visakhapatnam, Mormugao, Imphal and Surat. The first vessel of the class, INS Visakhapatnam was commissioned on 21 November
	2021.
Missile 'Pralay'	In News: Defence Research and Development Organisation (DRDO) successfully conducted
	maiden flight test of indigenously developed surface-to-surface missile 'Pralay'.
	 Powered with solid propellant rocket motor and many new technologies
	 Has a range of 150-500 kilometre and can be launched from a mobile launcher

	 The missile guidance system includes state-of-the-art navigation system and integrated avionics.
ASIGMA	Context Indian Army launched a contemporary messaging application named ASIGMA. Key takeaways
	 ASIGMA stands for Army Secure IndiGeneous Messaging Application.
	 It is a new generation, state-of-the-art, web based application developed entirely in- house but team of officers of the Corne of Signals of the Army
	house by team of officers of the Corps of Signals of the Army.
	 The application is being deployed on the Army's internal network as a replacement of Annual/file Arms Naturally and an annual internal network as a replacement of
	Army Wide Area Network messaging application which has been in service for the past
	15 years.
	The application has been fielded on Army owned hardware.
	It has a variety of contemporary features including multi-level security, message
	prioritisation and tracking.
	This future ready messaging application will meet real time data transfer and
	messaging requirements of the Army.
Siddha system	One of the oldest codified traditions of healthcare originated in the Indian sub-
of medicine	continent with many intricate, novel therapeutic interventions and treatment
	modalities.
	 The fundamentals and principles largely rely upon Panchabootham, taste and three
	humours.
	 It enjoys state patronage as part of the officially recognized Ayush systems and caters
	to considerable proportion of population through public and private health care
	facilities
	 Ministry of Ayush observes Siddha Day on eve of Agathiyar's birthday every year
	which falls during the Ayilyam star of Margazhi Month.
Magnetar	In News: Scientists have found the first clues to understand violent short duration flares from
	a compact star of rare category called magnetar located thirteen million light years away.
	These compact stars with the most intense magnetic field known, of which only thirty
	have been spotted so far in our galaxy, suffer violent eruptions that are still little
	known due to their unexpected nature and their short duration.
	• Scientists have long been intrigued by such short and intence bursts transient X-ray
	pulses of energies several times that of the Sun and length ranging from a fraction of
	a few millisecond to a few microseconds.
	 When massive stars like supergiant stars with a total mass of between 10 and 25 solar
	masses collapse they might form neutron stars.
	 Among neutron stars, stands out a small group with the most intense magnetic field
	known: magnetars.
	 It is believed that eruptions in magnetars may be due to instabilities in their
	magnetosphere or to a kind of "earthquakes" ("starquakes") produced in their crust
	a rigid and elastic layer about a kilometer thick.
	 "Regardless of the trigger, in the magnetosphere of the star a type of waves will be created. These, waves which are well known in the Sun, are called Alfvén waves are
	created. These waves which are well known in the Sun, are called Alfvén waves and
	while bouncing back and forth between the points at the base of its lines of magnetic
	field, they interact with each other dissipating energy
Paxlovid	Context Recently, US Pharma Giant Pfizer has received USFDA emergency use authorization
	for its Covid-19 antiviral treatment Paxlovid.
	About Paxlovid
	The drug, Paxlovid, is a faster way to treat early COVID-19 infections, though initial
	supplies will be extremely limited.
	It is an antiviral Covid-19 treatment candidate, which is administered in combination
	with low dose HIV medicine ritonavir.

	 Paxlovid can be used to treat adults with Covid-19 who do not require supplemental oxygen and who are at increased risk of progressing to severe disease. Under the deal, it signed a voluntary license agreement for Covid-19 oral antiviral treatment candidate Paxlovid. The production and distribution of Paxlovid shall also be facilitated by granting sub-
	licenses to qualified generic medicine manufacturers.
World's oldest	Context Recently, scientists have compiled the world's oldest family tree from human bones
family tree	interred at a 5,700-year-old tomb in the Cotswolds, UK.
created using DNA	• The Neolithic tomb, or "cairn", at Hazleton North in Gloucestershire has two L-shaped chambers, one facing north and the other south.
	Key takeaways
	• The tomb dates to an important period just after farming was introduced to Britain by people.
	 Analysis of DNA from the tomb's occupants revealed the people buried there were from five continuous generations of one extended family.
	 Most of those found in the tomb were descended from four women who all had children with the same man.
	The first-generation women probably held a socially significant place in the memories of this community.
	 While the tomb reveals evidence of polygyny – men having children with multiple women – it also shows that polyandry was also widespread (women having children with multiple men).
	• Significance: The work will help researchers understand family dynamics among these Stone Age people and learn more about their culture.
State Health	Context: NITI Aayog Releases Fourth Edition of State Health Index
Index	 The report, titled "Healthy States, Progressive India", ranks states and Union Territories on their year-on-year incremental performance in health outcomes as well as their overall status. Objective through this index is to not just look at the states' historical performance but also their incremental performance. The index encourages healthy competition and cross-learning among States and UTs.
	 The index encourages healthy competition and cross learning among states and ors. The reports aim to nudge states/UTs towards building robust health systems and improving service delivery.
	Round IV of the report focuses on measuring and highlighting the overall performance and incremental improvement of states and UTs over the period 2018–19 to 2019–20.
	 The State Health Index is annual tool to assess the performance of states and UTs. It is a weighted composite index based on 24 indicators grouped under the domains of 'Health Outcomes', 'Governance and Information', and 'Key Inputs/Processes'. Each domain has been assigned weights based on its importance with higher score for outcome indicators.
	 To ensure comparison among similar entities, the ranking is categorized as 'Larger States', 'Smaller States' and 'Union Territories'.
	Results:
	 Among the 'Larger States', in terms of annual incremental performance, Uttar Pradesh, Assam and Telangana are the top three ranking states.
	 Among 'Smaller States', Mizoram and Meghalaya registered the maximum annual incremental progress. Among UTs, Delhi, followed by Jammu and Kashmir, showed the best incremental performance.
Voor Fred	Context: The year 2021 brought some unprecedented challenges for humankind. DST and its
Year-End- Review-2021-	
Ministry of	autonomous institutions geared themselves up to help India deal with the challenges. The department also implemented the lessons learnt last year through COVID-19 pandemic to

Science and	reach out to the world with STI solutions that brought about positive transformations in eve
Technology	sphere, be it healthcare, sustainability, energy efficiency, Climate change, food production
	even in terms of the way we work.
	India has risen to the 46th position featuring within the top 50 innovative economic
	globally as per Global Innovation Index (GII).
	• Under the National Super-Computer Mission (NSM), 4 new Supercomputers have
	been installed
	• A new program called Synergistic Training Program Utilizing the Scientific ar
	Technological Infrastructure (STUTI) announced recently is envisioned to boo
	human resource and its capacity building through open access to S & T Infrastructu
	across the country.
	 Proposals have been invited to support strengthening the R&D base of the performing
	Universities in the country under the Scheme "Promotion of University Research ar
	Scientific Excellence" (PURSE).
	 The Women Science Programme of DST has started a new initiative to support Women
	PG Colleges under the CURIE (Consolidation of University Research for Innovation
	and Excellence in Women Universities) Program and invited proposals for the same
	 30 institutions have officially started GATI (Gender Advancement for Transforming)
	Institutions) Pilot Program.
	 The first of its kind program for lateral entry for women researchers in joint R8
	projects between India and Germany was launched.
	 Setting up of Community COVID Resilience Resource Centres (CCRRCs) for bett recovery building Science Technology and Innevation (STI) canadities and canability
	recovery, building Science Technology and Innovation (STI) capacities and capabiliti
	against various uncertainties at community level
	 Point-of-care, cost effective, easy-to-perform diagnostic toolkits developed
	detect Salmonella, Staphylococcus aureus, Clostridium perfringer
	Campylobacter jejuni and Campylobacter coli contamination of food.
	 A pen drive size android app enabled user friendly DNA sensor was developed
	for onsite detection of scrub typhus.
	• A bouquet of coloured artificial diets for rearing silkworm was developed
	produce naturally coloured cocoon.
	Through North East Centre for Technology Application & Reach (NECTAR) Northea
	saw the successful cultivation of saffron for the first time in Yangang village of Sou
	Sikkim.
	 The Indian research community will soon be able to pursue industry-relevant resear
	opportunities in the areas of deep technologies that are novel, transformative, and
	can have a ground-breaking impact on a national scale through 'Fund for Industr
	Research Engagement (FIRE)' launched by the Science and Engineering Research Boa
	(SERB) in collaboration with Intel India.
	 Marching towards Atmanirbhar Bharat with several indigenous smart, low control
	technologies under DST supported make in India
	DST along with National Innovation Foundation (NIF) has supported several grassro
	innovations like traditional method of making Etikoppaka toys, Laxmi Asu Making
	Machine which has revolutionized the weaving of the Pochampally silk and reduce
	the drudgery of thousands of weavers involved in the occupation as well as polyherb
	and cost-effective medicine to treat Mastitis, an infectious disease of dairy cattle.

 DST supported research helps move towards affordable health and wellbeing for all
 Researchers have developed a compound called "6BIO" that can provide a
better method to treat Autism Spectrum Disorder (ASD).
\circ A molecule that disrupts the mechanism through which neurons become
dysfunctional in Alzheimer's disease (AD) has been developed
 A new technique to measure DNA modifications can help early diagnosis of multiple diseases
multiple diseases.
• The first National Heart Failure Biobank (NHFB) in the country that would
collect blood, biopsies, and clinical data as a guide to future therapies was
inaugurated
• DST supported research assesses state level vulnerability, health & other effects of
climate change
 Climate parameters accounted for 9-18% of the total infectious disease cases in children.
\circ Mineral dust, biomass burning, secondary sulfate, secondary nitrate from
northwest India and Pakistan, polluted cities like Delhi, the Thar Desert, and
the Arabian Sea area, and long-range transported marine mixed aerosols are
the main sources of aerosols in the central Himalayan region.
 North-Western, Central, and further to south-central region of India were
found to be the new hotspot of intense heatwave events over the past half-
century highlighting need for developing effective heat action plans in the
three heatwave hotspot regions with a focus on different vulnerabilities
among the inhabitants.
 Researchers have also calculated the economic impact of aerosols, dust, and
clouds reducing solar energy generation from photovoltaic and rooftop solar
installations, found severe cyclonic storms in the North Indian Ocean region
increasing in the past four decades, and that thermocol could be the material
of the future for construction of earthquake-resistant buildings.
 For better disaster management: Found the first geological evidence of an earthquake
at Himebasti Village on the border of Assam and Arunachal Pradesh, documented by
historians as Sadiya earthquake in history, which is recorded to have caused massive
destruction in the region and almost destroyed the town in 1697 CE. This finding could
contribute to a seismic hazard map of the eastern Himalaya, which can facilitate
construction and planning in the region. On the other hand Mishmi ranges (MR) in the
North-Eastern tip of India, which has witnessed the imprints of the largest earthquake
ever recorded in the Himalaya in the Kamlang Nagar town of Arunachal Pradesh, India
has a widely distributed earthquake pattern, unlike the western and central Himalaya
where the pattern is concentrated south of the Indus Suture Zone (ISZ), in the margin
between the Eurasian and Indian Plates) over a nearly 30-km-wide at 10 - 20 Km depth.
Clean and potable water for all
• A much-improved Advanced Oxidation Process (AOP) technology targeting
zero discharge water management system is being utilized for the complete
reuse of industrial dye wastewater for domestic and industrial usage at a rate
of 10 Kilo litres /day.
• A new technology using UV-Photocatalysis can treat municipal sewage and
highly polluting industrial wastewater streams

•	 Agricultural technologies ranging from grassroots to lab based for doubling farmer's income: Grassroots technologies like a variety of mango called Sadabahar, which is resistant to most major diseases and common mango disorders, practice to develop support roots in cashew trees to protect from borer attacks and cyclonic storms, self-pollinating apple variety that does not require long chilling hours were supported. A composite paper made of carbon (graphene oxide) loaded with preservatives has been developed by scientists which can be used as wrappers to help extend shelf life of fruits. Waste Management technologies helps the march towards waste to wealth: A novel high-performance bioreactor system integrated with sustainable pretreatment process enables anaerobic digestion of complex fat-rich sludge from dairy industry. Researchers have developed a technology to produce energy-efficient walling
	 materials using construction and demolition (C&D) waste and alkali-activated binders. A new high rate biomethanation technology for the integrated treatment of sewage and organic solid waste and concomitant generation of biogas and bio manure can treat groundwater and wastewater and convert it to potable water. A low-cost, integrated composting technology, which includes microbe-aided vermistabilisation can convert toxic sludge from the textile industry into plant probiotics in a short time. Helped develop a slew of new age technologies:
•	 A highly stable and non-toxic security ink from nano-materials that spontaneously emits light (luminescent) due to its unique chemical properties can combat the counterfeiting of branded goods, bank-notes, medicine, certificates, currency. Scientists at INST have produced electron gas with ultra-high mobility, which can speed up transfer of quantum information and signal from one part of a device to another and increase data storage and memory. A classification method based on Deep Learning (DL) network can evaluate hormone status for prognosis of breast cancer. Researchers at RRI have discovered a new exotic, strange state of materials in contact with an environment that alters its physical properties in the presence of an electromagnetic field, leading to better quantum technologies, which are tunable and controllable as per the user requirements.
	 is becoming one of the promising observatory sites globally. A faster method of predicting space weather has been identified in a type of Solar Radio Bursts (SRBs) observed using the global network of solar radio telescopes called CALLISTO a clue to the mystery behind the high abundance of Lithium— a trace element on Earth has been traced while an active galaxy found in a very bright state with 10 times more X-ray emission than normal, equivalent to more than 10 trillion Sun, and located 5 billion light-years away could help probe how particles behave under intense gravity and acceleration to the speed of light.

	 An algorithm that can increase the accuracy of data from exoplanets by reducing the contamination by the Earth's atmosphere and the disturbances due to instrumental effects and other factors has been developed while a new method to understand the atmosphere of extrasolar planets has been found. Besides, we now have clues to mystery of solar flares & CMEs in regions on Sun with disturbed magnetic field can help improving solar weather predictions.
Year-End- Review-2021- Ministry of Earth Sciences	 with disturbed magnetic field can help improving solar weather predictions. The Deep Ocean Mission, India's ambitious plan to explore and harness deep-oceanic resources and support the Blue Economy Initiatives of the Government of India was approved by the Cabinet. SAMUDRYAAN, Indian Manned Ocean Mission under Deep Ocean Mission was thus launched in November 2021. The underwater mining system was deployed from ORV Sagar Nidhi and Seabed locomotion trials of the experimental undercarriage system of underwater mining system (Varaha-I and II) was successfully undertaken over a distance of 120m on water-saturated soft soil at 5270 m depth in the Central Indian Ocean (CIO). Two gliders were deployed in the Bay of Bengal to monitor the deep ocean physical and biogeochemical parameters with special emphasis to understand the temporal and spatial variability of the Oxygen Minimum Zone (OMZ). An Earth System Science Data Portal (ESSDP) of MoES was launched The ESSDP hosts about 1050 metadata records of data collected and maintained underdifferent programs implemented by MoES over the years and link them to the respective data centres. Accurate and timely prediction of tropical cyclones Tautkae, Yaas, Gulab and Shaheen combined with fieldwork by disaster management agencies, which helped save thousands of precious lives of countrymen. Significant improvements in forecasting accuracy with respect to severe weather events including tropical cyclones, heavy rainfall, fog, heat wave, cold wave, thunder storm-20 to 40 percent improvement Three Doppler Weather Radars were commissioned at Mukteshwar, Uttarakhand and Kufri, Shimia, Himachal Pradesh and Jammu. Atmospheric Research Testbed is an open field observatory spread over 100 acres of land (50 km northwest of Bhopal in Sehore District of Madhya Pradesh) for better understan
	 forecasts for next 12 hours. A Virtual Centre on Artificial Intelligence (AI) / Machine Learning (ML)/ Deep Learning (DL) is established at IITM Pune in order to expand the domain through multidisciplinary programs in the field of Earth System Sciences.

•	comprising of the locations of Hot Spots (HS) and Degree of Heating Weeks (DHWs) estimated using SST anomalies derived from satellite data on a bi-weekly basis. A water quality buoy has been deployed by National Centre for Coastal Research (NCCR) in the coastal water off Puducherry at 10m depth (~1.5 km from the coast). This is an automated water quality buoy fitted with sensors to monitor the variations in the water quality and productivity of the coastal waters. Under the Resource Exploration and Inventorization System (REIS) programme taxonomic studies of samples collected on-board FORV Sagar Sampada within the Indian Exclusive Economic Zone (EEZ) yielded six new species of decapod crustaceans, one new species of polycheate and two species of deeps eels.
•	The existing National Seismological Network has now been strengthened to 150 stations with the addition of 35 new seismic observatories to improve the operational capability to detect any earthquake of M:3.0 or above in most parts of the country
•	Geotechnical surveys are in progress. Under the Scientific Deep Drilling project in the Koyna Intraplate Seismic Zone, Maharashtra, the evidence of deep-water percolation in the Koyna Seismogenic Zone has been established with several damage zones being delineated between 2 and 3 km in the Koyna pilot borehole based on the physical and mechanical properties of the
•	rock formations. Under the national network project, Submarine Ground Water Discharge (SGD), National Centre for Earth Science Studies (NCESS) has estimated SGD flux from three coastal catchments of southwest coastal zone of India through aquifer modelling technique. There are nine critical zones with a total shore length of 106.5 km, out of 640km surveyed, in the SW coastal zone having SGD signatures
•	 The 40th Indian Scientific Expedition to Antarctica (40-ISEA) and 41st Indian Scientific Expedition to Antarctica launched from National Centre for Polar and Ocean Research (NCPOR), Goa in 2021. The 41st expedition has two major programs. The first program encompasses
	 geological exploration of the Amery ice shelf at Bharati station. This will help explore the link between India and Antarctica in the past. The second program involves reconnaissance surveys and preparatory work for drilling of 500 meters of ice core near Maitri in collaboration with the British Antarctic Survey and the Norwegian Polar Institute. It will help in improving the understanding of Antarctic climate, westerly winds, sea-ice and
•	greenhouse gases from a single climate archive for past 10,000 years. The International Training Centre for Operational Oceanography (ITCOocean) established at INCOIS, Hyderabad a UNESCO Category 2 Centre, had trainees from 95 countriestill date. The online training mode due to the pandemic has enabled increased participation from Indian Ocean Rim countries in the training programmes. The Implementation Agreement on "Technical Cooperation in Development of the Research moored Array for African-Asian-Australian Monsoon Analysis and prediction
•	 (RAMA) and the Ocean Moored buoy Network in the northern Indian ocean (OMNI) for Improving Weather and Monsoon Forecasts" was signed India and Vietnam signed a Memorandum of Understanding (MoU) towards promoting scientific and technical cooperation in marine science and ecology The innovative technologies developed by National Institute of Ocean Technology (NIOT) on "Recombinant Ectoine Deep Sea Bacteria for Skin Care And Cosmetic

Application" And Bio-surfactant From Marine Bacteria For Environmental Clean up And Waste Management.
 The seventh edition of the India International Science Festival (IISF 2021) organized by
the Ministry of Earth Sciences, Ministry of Science and Technology and Vijnana Bharati along with Government of Goa was held in Goa during 10-13, December 2021. The
National Centre for Polar and Ocean Research (NCPOR), MoES was the nodal agency
for organizing the IISF 2021. The theme of IISF 2021 was 'Celebrating Creativity in
Science'.



	INTERNATIONAL RELATIONS
G20's	In News: India joined the G20 'Troika'
TROIKA	• With this move, India has started the procedure for taking over the G20 presidency nex year.
	Key Takeaways
	• Troika refers to the top grouping within the G20 that consists of the current, previous and the incoming presidencies — Indonesia, Italy and India.
	 India will assume the G20 presidency on December 1, 2022 from Indonesia, and will convene the G20 Leaders' Summit for the first time in India in 2023.
	 Italy hosted the G20 summit during October 30-31 that was attended by Prime Ministe Narendra Modi where India had raised the issue of Afghanistan's future following the takeover by the Taliban.
	• Indonesia took over the G20 presidency on December 2, 2021. Next year's summit will be organised along the overall theme of "Recover Together, Recover Stronger".
	 As a Troika member, India will work closely with Indonesia and Italy to ensure consistency and continuity of the G20's agenda.
G7	Context The Group of Seven (G7) economic powers told Russia to "de-escalate" its military buildur
	near the Ukrainian border, warning that an invasion would have "massive consequences" and
	inflict severe economic pai <mark>n on Moscow.</mark>
	About G7
	 G7 stands for "Group of Seven" industrialized nations.
	 It used to be known as the G8 (Group of Eight) until 2014 when Russia was excluded because of its annexation of Crimea from Ukraine.
	 Countries: United States, the United Kingdom, Germany, Canada, Japan, France and Italy. The G7 does not have a formal constitution or a fixed headquarters.
	 It is an informal bloc and The decisions taken by leaders during annual summits are non binding.
	 Generally every member country hosts the summit once every 7 years
Diplomatic	Context USA recently formally announced a diplomatic boycott of the upcoming 2022 Beijing
boycott of	Winter Olympics in response to China's human rights record, especially the ongoing Uighur abuse
Beijing	The diplomatic boycott would mean the USA will not send "any diplomatic or officia
Winter	representation," while still allowing American athletes to compete.
Olympics	About winter Olympic
	The Winter Olympic Games is a major international multi-sport event held once every fou
	years for sports practised on snow and ice.
	The first Winter Olympic Games was held in 1924 in Chamonix, France.
	The IOC is the governing body and the Olympic Charter defines its structure and authority
	About Uighurs
	 Uighurs, are a minority Turkic ethnic group originating from and culturally affiliated with the general region of Central and East Asia.
	 The Uyghurs are recognized as native to the Xinjiang Uyghur Autonomous Region of the People's Republic of China.
	 China rejects the idea of them being an indigenous group Since 2016, it is estimated that over a million Uyghurs have been detained in Xinjiang re education camps

	KAZAKHSTAN KYRGYSTAN Urumqi Xinjiang TAJIKISTAN NEPAL BHUTAN NEPAL BHUTAN MONGOLIA Bejing CHINA MONGOLIA Bejing TAJIKISTAN NEPAL BHUTAN NEPAL BHUTAN BURMA VIETNAM
Central Asian leaders invited for R-Day	 Context India has invited leaders of all five Central Asian nations to attend as chief guests of Republic Day. If they accept, this will be the first time all five countries will attend the Republic Day parade together India and the Central Asia The Republic Day meeting will help strengthen India's initiatives through Chabahar and through the International North South Transport Corridor. The invitation is part of India's reach-out to the former Soviet States which has intensified since 2015. India joined the Shanghai Cooperation Organisation (SCO) in 2017, which all Central Asian States other than Turkmenistan are members of. The India-Central Asia dialogue was launched in 2019, and in July 2021, Minister of External Affairs attended the Central Asia-South Asia connectivity conference. Do you know? Central Asia is a region in Asia which stretches from the Caspian Sea in the west to China and Mongolia in the east, and from Afghanistan and Iran in the south to Russia in the north It includes the former Soviet republics of Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan
PANEX-21	 Context A Curtain Raiser Event for Humanitarian Assistance and Disaster Relief exercise, PANEX-21, for the member nations of <u>BIMSTEC</u> countries, was held in New Delhi recently. Key takeaways The exercise is planned to be conducted from 20-22 December 2021 at Pune. It will witness participation from subject matter experts and delegates from India, Bangladesh, Nepal, Bhutan, Myanmar, Sri Lanka and Thailand. The Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation (BIMSTEC) It is a regional organization comprising seven Member States lying in the areas of the Bay of Bengal. This organization came into being in 1997 through the Bangkok Declaration. Member States: Bangladesh, Bhutan, India, Nepal, Sri Lanka, Myanmar and Thailand.
UNSC adopts resolution to ease	Context The United Nations Security Council (UNSC) unanimously passed a resolution permitting a carve-out in sanctions against the Taliban to facilitate the delivery of humanitarian aid to Afghanistan. Key takeaways
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Afghan	This carve-out covers urgently needed humanitarian assistance and other activities that
assistance	support basic human needs in Afghanistan.
	• The resolution (2615) mandates a review of the carve-out every six months.
	It also requests that an Emergency Relief Coordinator brief the UNSC every six months o
	the delivery of assistance and any obstacles to implementation.
	• It also "calls on all parties" to respect human rights and observe international humanitaria
	law.
	About United Nations Security Council
	The UNSC is one of the six principal organs of the United Nations
	 It is charged with the maintenance of international peace and security.
	Permanent members (P5): Russia, UK, France, China, and USA
	The Security Council also has 10 non-permanent members, elected on a regional basis to
	serve two-year terms.
	 The body's presidency rotates monthly among its 15 members.
Mission	Context As part of deployment undertaken by the Indian Navy since May 2020 under Mission
SAGAR	SAGAR, Indian Naval Ship Kesari entered the Port of Maputo, Mozambique recently.
	Key takeaways
	 500 Tons of food aid has been shipped by INS Kesari to support Mozambique to cope with
	ongoing drought and concurrent challenges of pandemic.
	 INS Kesari is carrying two Fast Interceptor Craft and self defence equipment to be handed
	over to the Armed Forces of Mozambique.
	About mission SAGAR:
	 Mission Sagar was a COVID-19 relief mission launched by India in May 2020 as a part of it
	efforts to provide essential aid to the Indian Ocean countries.
	This was followed up by Mission Sagar II in November and Mission Sagar III in December
	2020.
	Mission SAGAR 1- India sent INS Kesari in May 2020 with food items, medicines and medica
	assistance teams to Mauritius, Seychelles, Madagascar, Comoros and La Reunion.
	Mission SAGAR 2- In November 2020, INS Airavat was delivering food to Sudan, South
	Sudan, Djibouti and Eritrea.
	• Mission SAGAR 3- In December 2020, INS Kiltan made its way towards Cambodia and
	Vietnam carrying 15 tons of Humanitarian Assistance and Disaster Relief (HADR) fo
	disaster relief following catastrophic floods in Vietnam and Cambodia.
	 Mission SAGAR 4- In March 2021, INS Jalashwa reached Port Anjouan, Comoros to delive
	1000 metric tonnes of rice to the island nation.
	Do you know?
	• INS Kesari, a Landing Ship Tank (Large) had undertaken a similar mission in May – June 2020
	to provide humanitarian and medical assistance to Maldives, Mauritius, Seychelles
	Madagascar and Comoros, including deployment of Medical Assistance Teams of the India
	Navy in multiple locations.
	 Since May 2020, the Indian Navy has deployed ships to 15 Friendly Foreign Countries under
	SAGAR missions.
Counter	Context India will chair the Counter-Terrorism Committee of United Nations Security Counc
Terrorism	(UNSC) in January 2022 after 10 years.
Committee	Key takeaways
	The Counter-Terrorism Committee was established by Security Council resolution 137
of UNSC	adopted unanimously on 28 September 2001 in the wake of the 9/11 terror attacks in the
	US.
	The Committee was tasked with monitoring implementation of resolution 1373 which requested countries to implement a number of measures aimed at enhancing their lags
	requested countries to implement a number of measures aimed at enhancing their lega
	and institutional ability to counter terrorist activities at home and around the world.
	This includes:

	 taking steps to criminalize the financing of terrorism
	 freezing any funds related to persons involved in acts of terrorism
	 deny all forms of financial support for terrorist groups
	 suppress the provision of safe haven
	 support for terrorists and share information with other governments on any groups practicing or planning terrorist acts.
	• Besides, the Committee monitors steps taken to cooperate with other governments in the
	investigation, detection, arrest, extradition and prosecution of those involved in terror acts
	and criminalizes active and passive assistance for terrorism.
India-	Context India and Australia are expected to complete negotiations for an interim free trade
Australia	agreement (FTA) soon.
interim FTA	Key takeaways
	• The agreement is aimed at boosting economic ties between the two countries.
	• The final agreement, officially known as the Comprehensive Economic Cooperation Agreement (CECA), is expected to be completed by the end of 2022.
	• The pact covers areas such as goods, services, investment, rules of origin, customs facilitation, legal and institutional issues.
	• A similar agreement with the UAE is likely to be signed in March 2022.
	• This new strategic economic agreement is expected to increase bilateral trade in goods to \$100 billion within five years of the signed agreement and increase trade in services to \$15 billion.



	MISCELLANEOUS
	MISCELLANEOUS
World AIDS Day:	 It is observed on 1st December AIDS is a pandemic disease caused by the infection of Human Immunodeficiency Viru (HIV), which damages the human immune system. It is a chronic, potentially life-threatening condition. By damaging immune system, HIV interferes with the body's ability to fight infectio and disease. The virus can be transmitted through contact with infected blood, semen or vagina fluids. AIDS symptoms include weight loss, fever or night sweats, fatigue and recurren infections. No cure exists for AIDS. Strict adherence to antiretroviral regimens (ARVs) can slow the disease's progress an prevent secondary infections and complications.
	 Initiatives by India India's unique HIV prevention model is centered around the concept of 'Social Contracting' through which the 'Targeted Interventions Program' is implemented. The HIV & AIDS Prevention and Control Act, 2017, provides a legal and enablin framework to safeguard the human rights of infected and affected populations. India is providing free anti-retro-viral treatment to close to 1.4 million people. Project Sunrise: Launched by the Ministry of Health and Family Welfare (2016) to tackl the rising HIV prevalence in north-eastern states The Red Ribbon: Wearing a ribbon is a way to raise awareness on and during the ru up to World AIDS Day. <u>90-90-90</u>: 90% of those who are HIV positive in India know their status, 90% of those who know their status are on treatment and 90% of those who are on treatment experience effective viral load suppression. <u>Global Fund to Fight AIDS, Tuberculosis and Malaria (GFATM</u>): It is designed t accelerate the end of AIDS, tuberculosis and malaria as epidemics. National AIDS Control Program Launched by: The National AIDS Control Organization (NACO) launched in 1992-1999. NACO is a division of the Ministry of Health and Family Welfare. India is gradually transitioning the people living with HIV to Dolutegravir (a safer an efficacious anti-retro-viral medication regimen).
Summit for Democracy	 Context Summit for Democracy was recently convened by the U.S. President Joe Biden. Key highlights India emphasised that the world must also jointly shape global norms for emergin technologies like social media and cryptocurrencies. USA president announced the establishment of the Presidential Initiative for Democratic Renewal.
Launch of Atmanirbhar Hastshilpkar Scheme	 By: North Eastern Development Finance Corporation Ltd. (NEDFi), a premier financial institution in the North-Eastern Region Objective: To develop the petty artisans of the North Eastern Region by providin financial assistance in the form of term loan for income generating activities for settin up / expansion / modernization / working capital requirement and other activitie related to the sector

С.	C. Rajagopalachari (1878-1972) was a freedom fighter, politician, an associate of Gandhi
Rajagopalachari	and the final governor general of India. Rajagopalachari parted ways with the Congress in
(1878-1972)	1957 after being disillusioned by the path it was taking. He founded the Swatantra Party in
	1959, which favoured classical liberal principles and free enterprise.
Swarnim Vijay	In News Inauguration of the 'Swarnim Vijay Parv', commemorating 50 years of the Liberation
Parv	War of Bangladesh was recently inaugurated at India Gate, New Delhi.
	• Swarnim Vijay Parv celebrations will go on for 2 days and will commemorate 50 years
	of India's historic victory in the 1971 war and Indo-Bangladesh friendship.
New Gas Stove for Domestic PNG	Context The Minister of Petroleum and Natural Gas recently informed that a novel fuel efficient domestic cooking stove for Piped Natural Gas (PNG) has been developed by Petroleum Conservation Research Association (PCRA) in collaboration with CSIR-Indian Institute of Petroleum (IIP) Dehradun. Key takeaways
	• This is the first product of its kind in the Country.
	• Entire combustion system has been customised in this new stove to handle PNG.
	 The stove has been optimised to have the highest thermal efficiency of around 55% in comparison to the maximum efficiency of 40% for the modified LPG stoves It has a cost almost similar to a normal LPG stove.
Finn's weaver	In News Finn's weaver (Ploceus megarhynchus) bird, numbering less than 500 in India, which
bird	until now was listed as <mark>"vulnerable" in the IUCN</mark> Red List has been uplisted to "endangered" category.
	• The bird is primarily found in Terai grasslands in Uttarakhand and western Uttar
	Pradesh, apart from a few pockets in Assam.
Sri Ramna Kali	Context On December 17, 2021, President of India will inaugurate a famous Hindu shrine, Sri
Mandir	Ramna Kali Mandir, that was destroyed by the Pakistani forces during the war (Operation
	Searchlight) of 1971.
	Key takeaways
	 The Ramna Kali Bari used to be a famous landmark of Dhaka where a Kali temple stood for centuries.
	 India supported the renovation and conservation of the historic temple with the help
	of the Government of Bangladesh. The inauguration comes 50 years after Pakistan was
	defeated in 1971.
Possible largest	To be established at J <mark>aitapur in Maharashtra with a t</mark> otal capacity of 9900 MW
nuclear power	
generating site	
Order of the Druk Gyalpo	The King of Bhutan conferred its highest civilian award, the Order of the Druk Gyalpo, on India's Prime Minister on the occasion of Bhutan's National Day.
Tamil Thai	The Tamil Nadu government has declared Tamil Thai Vaazhthu, a prayer song sung in
Vaazhthu	praise of Mother Tamil, as the State Song.
Vaazintina	 A Government Order (GO) had been issued directing that everyone who is present
	during the rendition of the song, barring differently abled persons, should remain
	standing.
	Government order has come less than two weeks after the Madurai Bench of Madras
	High Court said that "There is no statutory or executive order requiring the attendees
	to stand up when Tamil Thai Vaazhthu is sung."
KAPILA - Kalam	 The campaign has been launched to Increase awareness regarding protection and exploitation of Intellectual Property (IP)
Program for Intellectual	 Provide funding support in order to promote filing of the Intellectual Property (IP)
Property	Higher Education Institutions.
Literacy and	Under the initiative, activities like IP Clinic, Case Studies/ Articles regarding Innovation
	and Intellectual Property and online awareness programs and National Intellectual

Awareness	Property Literacy Week (NIPLW) have been conducted. More than 46,000 users have
Campaign	registered for KAPILA awareness programs. A KAPILA portal has also been launched for this purpose.
Nai Manzil Scheme	 Context: The scheme aims to benefit the youth (both men & women) belonging to six notified minority communities of 17-35 years of age, who do not have formal school leaving certificated i.e., those in the category of school –dropouts or educated in community education institutions like Madrasas. 30% of the beneficiary seats are earmarked for girl/women candidates 5% of the beneficiary seats for persons with disability belonging to the minority community under the scheme. The scheme provides a combination of formal education (Class VIII or X) and skills to enable beneficiaries seek better employment and livelihood. Nai Roshni Scheme The scheme aims to empower and enhance confidence in women by providing knowledge, tool and techniques for Leadership Development of Women belonging to six notified minority communities i.e., Sikh, Buddhist, Jain, Muslim, Christian and Parsi It is a training programme conducted for women belonging to minority community between the age group of 18 years to 65 years; covering areas related to Programmes for women, Health and Hygiene, Legal rights of women, Financial Literacy, Digita Literacy, Swachch Bharat, Life Skills, and Advocacy for Social and Behavioural change.
Digital transactions in India	 There has been a growth of 88% in volume of digital transactions during the last 3 years since 2018-19 India's own payment platform, UPI has emerged as the country's favourite digita payment choice, with over 22 billion transactions registered during FY 2020-21, showing 4 times growth over the last 3 years. 31.17 crore RuPay debit cards have been issued to PMJDY account holders
Desmond Tutu	 Context Desmond Tutu, the Nobel Peace Prize laureate who helped end apartheid in South Africa, has died aged 90. Key takeaways A contemporary of anti-apartheid icon Nelson Mandela, he was one of the driving forces behind the movement to end the policy of racial segregation and discrimination enforced by the white minority government against the black majority in South Africa from 1948 until 1991. He was awarded the Nobel prize in 1984 for his role in the struggle to abolish the apartheid system.
Iran's new	Context : Iran announced that it has carried out a new space launch.
space launch	 The Simorgh (Phoenix) satellite launcher carried three research cargoes into space UN Security Council Resolution 2231 of 2015, endorsing the nuclear deal, imposed no blanket ban on Iranian rocket or missile launches.

MAINS

Cooperative	POLITY AND GOVERNANCE Context: 'Cooperation has failed, but cooperation must succeed,' wrote the All India Run
Sector Reforms	Credit Survey Committee in 1954.
	• This verdict came five decades after the first cooperative legislation of 1904. The
	Governor of the Madras Presidency, Lord Wenlock, was the first to seriously attempt
	replicating European cooperatives in India.
	• Madras was ideal for this experimentation as it had similar institutions in its Nidhis.
	European Cooperatives
	 Friedrich Raiffeisen, who along with compatriot Schulze-Delitzsch in Germany, an Luzzatti of Italy, pioneered cooperatives in Europe.
	 Raiffeisen based them on the principles of self-help, self-governance, and sel responsibility.
	 Known for their trustworthiness and resilience against financial crises, most were known as Raiffeisenbanks, spreading to other parts of Europe and America.
	India Cooperatives & challenges
	 Colonial Rulers while moving the Cooperative Societies Bill on October 23, 1903, ha said that the Bill sought to create 'small and simple credit societies for small and simp folk with simple needs and requiring small sums only'.
	 It was emphasised that 'co-operation must be built up from the bottom, and not from the top'.
	 However, what India had was not a movement, but a policy. It was 'created k 'resolutions of the Central Government' unlike Europe.
	• The challenge was to loosen government grip on cooperation over the years. Bu
	government control has only increased, violating a core cooperative principle of politic neutrality. This reflects a collective failure of the political class.
	 After Independence, cooperative institutions became an instrument of planning ar state action.
	 Not surprisingly, the most successful Indian cooperatives such as the AMUL, ndia Farmers Fertiliser Cooperative Limited (IFFCO) and Krishak Bharati Cooperative Limited
	(KRIBHCO <mark>), are outside government control.</mark>
	 Globally, seven of the top 10 cooperatives by asset size are from the financial sector
	The Indian financial sector is nowhere in the picture going by asset size.
	 When a cooperative bank scales up, maintaining its cooperativeness is a challeng Cooperatives have also become avenues for regulatory arbitrage, circumventing lendir
	and anti-money laundering regulations.
	• Cooperative banking suffered from the top-down quality. Recent initiatives such as a
	umbrella organisation for urban cooperatives and a new Ministry of Cooperation at th Centre threaten to further this approach in the absence of safeguards.
	Measures to be adopted
	1. Powers of Registrar of Cooperative Societies (RCS) need to be scaled back
	 A British Indian innovation, it failed to stick to its original role of a facilitator: a friend philosopher, and guide to cooperative societies.
	 In almost all States, the RCS has become an instrument of inspection and domination one which imposes uniform by-laws, and amends them when individual societies do not
	fall in line.
	• The RCS was empowered to grant exemptions considering local conditions. But, the
	position continued even after the Montagu-Chelmsford Reforms placed cooperation under the provinces in 1919. The RCS continued to hold sway after Independence.
Ph no: 916919188	
	 Some States even provide for across-the-board takeover of cooperative boards. There is a need to transfer work from the RCS to cooperative federations — as in Singapore
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	Singapore.
	2. Get rid of Rural-Urban dichotomy
	• The rural-urban dichotomy in the regulatory treatment of cooperatives is specious and outdated.
	 It perpetuates age-old divisions based on the nature of operations and population size. Such differences are immaterial when regulation is to be based on the cooperative nature of organisations.
	3. Streamline Regulation
	• The regulation and the supervision of cooperative banks should move to a new body from the RBI for urban banks and the National Bank for Agriculture and Rural Development (NABARD) for rural banks.
	• The arguments for combining supervisory powers with the RBI do not hold good for cooperative institutions.
	 Moreover, new regulatory body will ensure a fresh look at the regulation of these institutions to which stringent regulations like that of the Basel Committee are not designed to apply.
	 As for NABARD, the burden of inspecting rural cooperatives (and regional rural banks) is a distraction from its core mandate, apart from being a drain on resources. In India, adopting a multi-agency approach, especially after bank nationalisation, has affected the officiency of both commercial and cooperative banks.
The wood to	affected the efficiency of both commercial and cooperative banks.
The need to	In News: Being closed since the April 2020-lockdown, anganwadis are slowly reopening.
reopen anganwadis	 What is the significance of anganwadis? As part of the Integrated Child Development Services (ICDS), anganwadis play a crucial role in supporting households, particularly from low-income families, by providing childcare, health and nutrition, education, supplementary nutrition, immunisation, health check-up and referral services.
	 The largest in the world, ICDS covers about 88 million children aged 0-6 years in India. Their closure significantly impacted service delivery and weakened an important social safety net. Even as anganwadis resumed services, the closure has impacted their ability to serve as heit least the service of the service of the service as heit least the service of the service of the service as heit least the service of the service of the service as heit least the service of the service of the service as heit least the service of the service of the service as heit least the service of the service of the service of the service as heit least the service of t
	childcare centres.
	 What are the challenges faced by Anganwadis? Despite being the primary information-source on nutrition, anganwadi workers can lack here knowledge
	 key knowledge. Surveys conducted in 2018-19 found that among mothers listed with anganwadi workers, knowledge about key health behaviour such as complementary feeding and handwashing was low, at 54% and 49%.
	• Anganwadi workers often do not have the support or training to provide early childhood care and education (ECCE)
	• Administrative responsibilities take up significant time, and core services like pre-school education are deprioritised.
	 A typical worker spends an estimated 10% of their time — 28 minutes per day — on pre-school education, compared to the recommended daily 120 minutes.
	 Anganwadis often lack adequate infrastructure. NITI Aayog found that only 59% of anganwadis had adequate seating for children and workers, and more than half were unhygienic.
	• These issues worsen in an urban context, with the utilisation of early childcare services at anganwadis at only 28%, compared to 42% for rural areas, according to NFHS-4 data.
	Way Ahead

	 As anganwadis reopen, we must prioritise interventions with a demonstrated history of success, and evaluate new ones. Studies in Odisha and Andhra Pradesh (and globally) have found that home visits, where volunteers work with children and caregivers, significantly improved cognition, language, motor development and nutritional intake while also reducing stunting. Many States will have to improve career incentives and remuneration for anganwadi workers. One way to ensure they have more time is to hire additional workers at anganwadis. Policymakers have tried linking anganwadis and primary schools to strengthen convergence, as well as expanding the duration of daycare at anganwadis. Reaching out to women during pregnancy can increase the likelihood that their children use ICDS services Conclusion As the world's largest provider of early childhood services, anganwadis perform a crucia role in contributing to life outcomes of children across India. To improve these outcomes, we need to invest more significantly in anganwadis, and roll out proven
	innovative interventions.
Northeast	Context : The Nagaland Cabinet recently recommended that the Armed Forces Special Powers Act (AFSPA), 1958 be repealed from the state after the incident in the Mon district of the state in which security forces gunned down 13 civilians.
	 This has been a long-standing demand in Nagaland CM and Meghalaya CM have both called for repeal of AFSPA What is AFSPA?
	 Colonial Legacy continued: The Act in its original form was promulgated by the British in response to the Quit India movement in 1942. After Independence, government decided to retain the Act, which was first brought in as an ordnance and then notified as an Act in 1958. Power of imposition: AFSPA can be imposed by the Centre or the Governor of a state, on the state or parts of it, after it is declared "disturbed" under Section 3. The Act defines these as areas that are "disturbed or dangerous condition that the use of armed forces in aid of the civil power is necessary". Special Power to Armed Forces: The Act, which has been called draconian, gives sweeping powers to the armed forces. It allows them to open fire', even causing death, against any person in contravention to the law or carrying arms and ammunition. It gives them powers to arrest individuals without warrants. Immunity to Armed Personnel: The Act further provides blanket impunity to security personnel involved in such operations: There can be no prosecution or legal proceedings against them without the prior approval of the Centre. Areas of Operation: AFSPA has been imposed on the Northeast states, Jammu & Kashmir, and Punjab during the militancy years. Punjab was the first state from where it was repealed, followed by Tripura and Meghalaya. It remains in force in Mizoram, Nagaland, Manipur, Assam, J&K, and parts of Arunachal Pradesh. Are there safety nets? Prior Warning: While the Act gives powers to security forces to open fire, this cannot be done without prior warning given to the suspect. o In the recent firing in Nagaland, it has been an issue of discussion whether

	• Handing over to Local Police: The Act further says that after any suspects apprehended by security forces should be handed over to the local police station
	within 24 hours.
	• Coordination with District administration: It says armed forces must act in
	cooperation with the district administration and not as an independent body. In the
	recent Nagaland operation, local law-enforcement agencies have said they were
	unaware of the operation.
What	at are the criticisms of AFSPA?
	• Social Fallout: Nagaland and Mizoram faced the brunt of AFSPA in the 1950s,
	including air raids and bombings by the Indian military. Allegations have been made
	against security forces of mass killings and rape.
	 The Malom massacre in 2000, and the killing and alleged rape of Thangjam Manorama led to the subsequent repeal of AFSPA from the Imphal municipal
	area.
	• In 2012, the Extrajudicial Execution Victim Families Association of Manipur
	filed a case in the Supreme Court alleging 1,528 fake encounters between 1979 and 2012.
	 Culture of Impunity: Activists note that AFSPA creates an atmosphere of impunity
	among even state agencies such as the Manipur Police and their Manipur
	Commandos, believed to be responsible for most encounters in the state, some of
	them jointly with Assam Rifles.
	• Proliferation of militant groups despite act: Manipur had two groups when the
	State was brought under the Act. Today, Manipur has more than twenty such
	groups, Assam h <mark>as not less than fifteen, M</mark> eghalaya has five of them and other States
	have more groups.
	• Misuse of Act: Human rights activists have said the Act has often been used to settle
	private scores, such as property disputes, with false tip-offs provided by local
	informants to security forces.
	• Federal Issues: The Centre had also imposed AFSPA in Tripura in 1972 despite
	opposition from the then state government. The Centre can take a decision to repeal
	AFSPA after getting a recommendation from the state government. However,
	Nagaland, which has freshly recommended a repeal, had raised the demand earlier
	 Creates Hurdles in Peace Process: Mr R. N. Ravi, former head of the Intelligence
	Bureau for the North East is on record that AFSPA is the biggest obstacle to peace in
	the region. Former Home Secretary Mr G. K. Pillai has come out openly against the
	Act. These statements come from persons who have worked in the system and know
	the dynamics of the Act and of running the Government.
Wh	at attempts have been made to repeal AFSPA in the past?
	• In 2000, Manipur activist Irom Sharmila began a hunger-strike, which would
	continue for 16 years, against AFSPA.
	• In 2004, the UPA government set up a five-member committee under a former
	Supreme Court Judge. The Justice Jeevan Reddy Commission submitted its report
	in 2005, saying AFSPA had become a symbol of oppression and recommending its
	repeal.
	• The Second Administrative Reforms Commission, headed by Veeerapa Moily,
	endorsed Jeevan Reddy Commission recommendations.
	• Former Home Secretary G K Pillai too supported the repeal of AFSPA, and former
	Home Minister P Chidambaram once said the Act, if not repealed, should at least be
	amended. But opposition from the Defence Ministry stalled any possible decision.

	Conclusion The problems in the North East and in Kashmir should be solved through a political process
	and not through a law that violates people's right to life and dignity with impunity. Connecting the dots
	Asymmetrical Federalism
	<u>Naga Peace Process</u>
Citizenship Debate in the Constituent	Context : With the contentious farm laws repealed, the discussions turn to the second most politically and legally resisted legislation of recent times, The Citizenship (Amendment) Act 2019.
Assembly	Citizenship in Constituent Assembly
	 The citizenship question had been one of the most gruelling tasks confronted by the drafting committee as admitted by Dr B.R.Ambedkar who said that multiple drafts were prepared and destroyed before arriving at a consensus, which may satisfy most people if not all.
	• The secular and liberal provisions of the proposed draft and the official amendment were fiercely contested on the floor of the Constituent Assembly on religious, ethni and hyper-nationalistic considerations.
	 Article 5 of the Constitution of India was criticised for its lack of exclusive and preferential provisions on religious lines regarding the declaration as to who shall be the citizen of India (as on the date of commencement of the Constitution).
	• Dr P.S.Deshmukh from the Central Provinces and Berar proposed changes to
	Article 5 <mark>of the draft by proposing t</mark> o replace the universally honoured "jus soli principle by qualifying it with a religious appendage that "every person who is Hindu or a Sikh by religion and is not a citizen of any other State, wherever h
	resides shall be entitled to be a citizen of India."
	 Article 5A of the draft (Article 7 of the Constitution of India), was removed on the ground that its proviso sought to grant citizenship rights to the migrants of Pakista who had returned to India under a permit for resettlement granted by India
	authorities.
	The defenders
	 R.K.Sidhva from C.P. and Berar retorted that mentioning the name of some communities will make other communities feel that they were being ignored. Jawaharalal Nehru supported the draft definition of citizenship on Universal (non-
	 religious) basis and secularism in unequivocal terms. Nehru did not mince words when he stated that "you cannot have rules for Hindus, fo
	Muslims and for Christians only. It is absurd on the face of it".
	• With regard to Article 5A drafted, Nehru also impressed upon the possibility of the second wave of migration including non-Hindus and non-Sikhs who were part of the first wave influx. Hence, in his view, foreclosing the doors fearing the influx of some matrix.
	deprive others of exercising their choice.
	 Brajeshwar Prasad, a member from Bihar, went further in stating that "I see no reaso why a Muslim who is a citizen of this country should be deprived of his citizenship at th commencement of this Constitution, especially when we are inviting Hindus who hav
	come to India from Pakistan to become citizens of this country. why cannot Muhammadan of the frontier be so when we have always said that we are one?"
	• Mahboob Ali Baig went one step ahead by calling the proposition of Dr.Deshmukh as ridiculous" as it contemplated giving citizenship rights only to persons who are Hindu and Sikhs.
	 Alladi Krishnaswamy Ayyar said "we cannot on any racial or religious or other ground make a distinction between one kind of persons and another, or one sect of person and another sect of persons having regard to our commitments and the formulation of
	our policy on various occasions."

	Challenge now
	• The assertion of Dr.Deshmukh that "by the mere fact that he is a Hindu or a Sikh, he should get Indian citizenship" finds its resonance today in the 2019 Citizenship Amendment Act that only people belonging to some faiths are victims of persecution and violence and the doors of the country can be legitimately shut to any other instance
	of persecution and ethnic violence. The final outcome of Citizenship debate
	 The amendment No. 164 proposed by Dr. Deshmukh modifying Article 5 to make citizenship as a matter of right to Hindus and Sikhs irrespective of the place of residence was rejected. The Constituent Assembly debates on citizenship showed that utilising the sentiments of ethnicity and distrust, sagacity & maturity had an upper hand, leading to toleration
	& establishment of Secular state. Connecting the dots
	Protests against Citizenship Amendment (during bill stage)
	Consequences of CAA, 2019
Defining EWS	In News: The Ministry of Social Justice and Empowerment has recently appointed a three- member committee to revisit the criteria for 10% reservation for economically weaker sections (EWS) in educational institutions and government jobs. The committee will comprise Former Finance Secretary Ajay Bhushan Pandey, Member Secretary ICSSR Prof VK Malhotra and Principal Economic Advisor to the Indian government Sanjeev Sanyal. Background
	This came after Supreme Court's observations while hearing petitions challenging the government notice issued in July which provides for 10% EWS quota in NEET admissions. According to a memorandum issued by the union government on EWS quota –
	 Only those persons who are not covered under the scheme of reservation for SCs, STs and OBCs and whose family has gross annual income below 8.00 lakh rupees are to be identified as EWSs for benefit of reservation. This Income shall also include income from all sources i.e. salary, agriculture, business, profession, etc. Persons whose families own landholdings of a certain size such as at least five acres of agricultural land, or a residential flat of at least 1,000 sq. feet are excluded from the purview of this reservation.
	The Committee
	 The committee will examine various approaches followed in the country so far for identifying the economically weaker sections. It will also send its recommendations to the Centre in the next three weeks.
	 The office memorandum issued by the ministry, signed by joint secretary RP Meena, states that the committee is being set up "in accordance with the commitment" given to the Supreme Court to "revisit the criteria for determining the economically weaker sections in terms of the provisions of the explanation to Article 15 of the Constitution". Last week, the government had submitted to the Supreme Court that it would revisit the Rs 8 lakh annual income criteria for EWS to be eligible for reservation benefits.
	Do You Know?
	 It was 103rd Constitutional Amendment Act that introduced provide 10 per cent reservation in government jobs and education (except in minority educational institutions) to economically backward section in the general category The act inserted Articles 15(6) and 16(6) of the Constitution that provided for these reservations.
	Article 46 of the Constitution (DPSP) enjoins that the State shall promote with special care the educational and economic interests of the weaker sections of the people.

John Rawl's	Context: John Rawls was a highly influential American liberal political philosopher of the las
Two Principles	century.
of Justice	The Two Principles of Justice in his 1971 classic, A Theory of Justice, forms the singular
	most operative facet of Rawls' doctrine of justice, which he termed justice as fairness.
	This theory of Justice has radically redefined the philosophical debates on achieving
	greater economic redistribution.
	• The other concepts elaborated in the book – those of the basic structure of a well
	ordered society, the original position, the veil of ignorance and primary goods – ar
	building blocks of the overall edifice of justice
	What is John Rawl's Two Principles of Justice?
	• Equality Principle: The first of Rawls' two principles says that every citizen has the same
	claim to a scheme of equal basic liberties, which must also be compatible with those of
	every other citizen.
	 Rawls enumerates an extensive list of basic civil and political rights, including a
	person's freedom of conscience, expression and association; the right to a basi
	income; and the right to exercise the franchise
	Difference Principle: The second of Rawls' two principles grapples with the underlying
	inequalities of social and economic institutions. Rawls posits that in order to be morall
	defensible, these institutions must satisfy two conditions.
	• First, they must guarantee fair equality of opportunities for competition to
	positions of public office and employment.
	 Second, social and economic inequalities must be arranged in a manner that
	they work to the greatest benefit of the least advantaged members of society.
	What is the significance of Two Principles of Justice?
	The political significance of Rawls' two principles of justice comes from the primacy here
	assigns to their different components.
	Between them, the first principle is accorded absolute priority over the second. That i
	to say, the primacy of the equal basic liberties of citizens is non-negotiable in
	democratic society.
	• The entitlement of each to the various liberties is as critical as they are universal and
	non-discriminatory.
	Within the second principle, the first part takes precedence over the second. In other
	words, public institutions could not appear legitimate in the eyes of citizens unles
	everybody could reasonably expect to enjoy the fruits of fair equality of opportunities
	Rawls reasoned that the two principles of justice would be fair because these ar
	precisely those that would be chosen impartially by rational, free and equal citizens, ha
	they no knowledge of their own individual or social circumstances in life.
	Conclusion
	Rawl's Theory of Justice has greater support & acceptance than a conception of justice tha
	prioritised the maximisation of overall well-being or happiness, but overlooked differences i
Cau Datia	how benefits are distributed and burdens imposed on particular individuals.
Sex Ratio	In News: The latest National Family and Health Survey (NFHS-5), facts sheets of which wer
	released recently, has indicated positive growth in the sex ratio of India. The National Famil
	Health Surveys (NFHS) is brought out by the International Institute for Population Science
	(IIPS), and provide some of the most critical information on demographic, health, nutrition and
	socio-economic status of people in the country.
	The Numbers
	The numbers indicate that India can no longer be called a country of "missing women", a phras
	first used by Nobel Prize winning economist Amartya Sen in a 1990 essay in the New York Review
	of Books.

As seen from the NHFS-5 data, for the first time since Independence, the number of women in
India have surpassed the number of men, which is unprecedented.
India now has 1,020 women for every 1000 men.
• During NFHS-3, conducted in 2005-06, the sex ratio was 1000:1000 and in NFHS-4 done
in 2015-16 it declined to 991:1000.
• The NFHS-5 figures have also shown that the sex ratio at birth improved from 919 in 2015-16 to 929 in 2019-20.
 78.6 percent of women have their own bank account compared to 53 percent five years
ago.
• The percentage of women who said they had a say in making decisions relating to
healthcare and major purchases for the family increased from 73.8 percent in 2015-16 to 92 percent in 2020-21.
Contraceptives: Use of contraceptives improved from 53.5% to 66.7%
• Sterilisation: An increase in female sterilisation. Continued stagnation in male
sterilisation uptake. It shows that the onus of family planning still lies with women.
• NFHS-5 reveals that institutional births have increased substantially from 79 percent to
89 percent nationwide. Institutional births mean that pregnant women and newborns
get proper medical attention and this is visible in improving maternal and child health
in the country. In addition, more women are opting for C-section deliveries.
• NFHS-5 shows that the percentage of married women in the 18-49-year age group that
have suffered spo <mark>usal violence has more</mark> than doubled from 20.6 percent in 2014-15 to
44.5 percent per NFHS-5. Distressingly, 30 percent of women surveyed said their
husband was justified in beating them.
India's low SRB can be attributed to the deep prejudice that girls face. Unlike girls, who are seen
as an economic burden on parents because of the practice of dowry, sons are preferred.
Families celebrate the birth of a boy, a girl child's arrival is reason for mourning. If in earlier
decades, people chose to kill new-born girls, the availability of technology to identify the sex of
the fetus has resulted in women committing sex selective abortions to prevent a girl from being
born. Pre-natal sex screening is banned in the country. Yet female feticide continues as reflected
in India's low SRB.
Criticism for the Report
Demography experts are saying it is not the time to rejoice yet as the figures do not give an
accurate picture of India's sex ratio. The overestimation of sex ratio (number of women per
1,000 men) in NFHS-5 was due to two major reasons.
• First, the sex ratio mentioned in the factsheet was based on de facto enumeration,
meaning the number of males and females who were present in the household on the
last night of the survey.
• The second reason was a significant improvement in the sex ratio in India during the last
30 years.
There are now 1,037 women per 1,000 men in India's rural areas according to NFHS-5, which is
a new record. But according to experts, the possibility of migrant rural men and women being
away from their homes on the last night of the de facto enumeration cannot be ruled out.
The Way Forward
While the statistics quoted above are a watershed moment in India's socio-economic and
demographic transformation story, other findings of NFHS also convey a similar message. Socio-
economic challenges facing India, going forward, will need to be dealt with more nuance and

 some of the stereotypes and political beliefs (such as the political obsession with population control laws) which dominate the public discourse will need to be shelved. The fact that we are now an aging population suggests that our approach to women's health needs a more holistic life cycle view rather than one that prioritises reproductive health only More women have completed ten years of schooling in 2019-20 than previously, coincides with a drop in female labour force participation points to significant structural challenges in India's labour market. These need to be urgently addressed if India is to make progress The findings on fertility decline are good news for maternal and child health and nutrition outcomes. However, the high fertility-high undernutrition states of Uttar Pradesh, Bihar, and Jharkhand still need to see more progress on fertility reductors – improvements in those high burden states are essential to move the all-India average for all outcomes NOTE: What is National Health Family Survey (NHFS)? NFHS is a large-scale nationwide survey of representative households. The data is collected over multiple rounds. Implementation Agencies: The MOHFW has designated International Institute for Population Sciences in Mumbai as the nodal agency and the survey is a collaborative effort of IIPS; ORC Macro, Maryland (US); and the East-West Center, Hawaii (US). Funding: The survey is funded by the United States Agency for International Development (USAID) with supplementary support from UNICEF. Previous Surveys: The first forur NHFS were conducted in 1932-93, 1998-99, 2005-06 and 2015-16, respectively. What data does it collect? The initial factsheet for NFH5-5 provides state-wise data on 131 parameters. These parameters include questions such as how many households get drinking water, electricity and improved sanitation; what is ser rati	
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Legal Age of Marriage	 Context: The Union Cabinet has raised the legal age of marriage for girls to 21 on the recommendations of the four-member task force led by former Samata Party chief Jaya Jaitly. What is the minimum age of marriage? Personal laws that govern marriage and other personal practices for communities prescribe certain criteria for marriage, including age of the bride and groom. For example, Section 5(iii) of The Hindu Marriage Act, 1955, sets a minimum age of 18 for the bride and 21 for the groom. This is the same for Christians under the Indian Christian Marriage Act, 1872 and the Special Marriage Act. For Muslims, the criteria is attaining puberty, which is assumed when the bride or groom turns 15. Why is there a minimum age? Essentially to outlaw child marriage. This is done through special legislation such as the Prohibition of Child Marriage Act, 2006 and the Protection of Children from Sexual Offences Act, 2012. Under the Child Marriage Prevention Act, any marriage below the prescribed age is illegal and the perpetrators of a forced child marriage can be punished. What happens to such marriages once detected? Child marriages are illegal but not void.
	 It is voidable at the option of the minor party. This means the marriage can be declared void by a court only if the minor party petitions the court. This flexibility is kept to ensure that the rights of the minor, especially the girl, is not taken away in marital homes later on. However, if a court finds a minor was coerced into marriage by parents or guardians, the provisions of the Juvenile Justice (Care and Protection of Children) Act come into effect to keep the custody of the minor until he or she attains majority and can make a decision on the marriage.
	 What was the rationale behind increasing legal age? The task force was set up by the WCD Ministry to re-examine age of marriage and its correlation to health and social indices such as infant mortality, maternal mortality, and nutrition levels among mothers and children. Committee has said the recommendation is not based on the rationale of population control (India's total fertility rate is already declining) but more with women's empowerment and gender parity. The committee has said access to education and livelihood must be enhanced simultaneously for the law to be effective.
	 What laws will have to be changed to raise the minimum age of marriage? First, the age limit in the Prohibition of Child Marriage Act will have to be changed. The government had indicated this will be followed by necessary changes in personal law. The Hindu Marriage Act, the Indian Christian Marriage Act and the Special Marriage Act will also have to be change consequently. However, changes in the Muslim law could raise significant legal issues.
	 Experts have been opposing a raised age of marriage on two broad counts. First, the law to prevent child marriages does not work. While child marriage has declined, it has been marginal: from 27% in 2015-16 to 23% in 2019-20, according to National Family Health Survey (NFHS) 5. The decrease was, however, dramatic in NFHS 4, from 47% in NFHS 3. The marriage age at 18 was set in 1978, but child marriage started to decline only in the 1990s, when the government stressed primary education of the girl child and took measures to reduce poverty. Often the girl child drops out after primary school simply because she has no access to higher education, and is then married off.

	\circ According to the State of the World Report 2020 by UNFPA, in India, 51% of
	young women with no education and 47% of those with only a primary
	education had married by age 18, compared to 29% of young women with a
	secondary education and 4% with post-secondary education.
	• The second objection being raised is the criminalisation of a large number of marriages
	that will take place once the law comes into effect. While 23% of marriages involve
	brides under age 18, far more marriages take place under age 21.
	• The median age at first marriage for women aged 20-49 increased to 19 years in
	2015-16 from 17.2 years in 2005-06, but remained under 21 years.
	What are these legal issues?
	• The Prohibition of Child Marriage Act does not contain any provision that explicitly says
	the law would override any other laws on the issue. And there is an obvious discrepancy
	in the letter of the law between the Prohibition of Child Marriage Act and Muslim law
	on the minimum age of marriage.
	• For example, although the marriage of a 16-year-old girl deemed to have attained
	puberty is not considered invalid in Muslim law, it would be a child marriage under the
	Prohibition of Child Marriage Act.
	 Additionally, the Supreme Court, in a landmark 2017 verdict, has held that in case of a
	minor wife, the law recognises marital rape. Husbands of minor women, as opposed to
	husbands of adult women, cannot enjoy the blanket immunity that the Indian Penal
	Code provides in Exception 2 to Section 375 against charges of marital rape.
	Can Muslim law be amended too?
	 Muslim law is a mere codification of Shariah law.
	• In Shayara Bano v Union of India, the case in which the Supreme Court declared the
	practice of instant triple talag as unconstitutional, one of the key questions was whether
	the Supreme Court could quash a religious or divine law.
	• The court said all personal laws will have to fall under the constitutional framework and
	will be subject to public order, morality and health.
	• Experts suggest the minimum age of marriage can be justified under public health.
	However, there are several differing verdicts from high courts on this issue.
	• In February this year, the Punjab and Haryana High Court granted protection to
	a Muslim couple (a 17-year-old girl married to a 36-year-old man), holding that
	theirs was a legal marriage under personal law. The HC examined provisions of
	the Prohibition of Child Marriage Act but held that since the special law does not
	override personal laws, Muslim law will prevail.
	 In other cases, the Karnataka and Gujarat High Courts have held that the 2006
	special law would override personal laws and have sent the minor girl to a care
	facility.
	Which sections of society will be most affected due to rise of legal marriage age?
	• Experts noted that 70% of early marriages take place in deprived communities such as
	SCs and STs, and said the law will simply push these marriages underground instead of
	preventing them.
	 According to NFHS 4 (2015-16), the median age at first marriage for women aged 25-49
	is higher among the social categories of Others (19.5 years), OBC (18.5), ST (18.4) and
	SC (18.1).
	• The experts said rural women will be affected more than urban women. According to
	NFHS 4, the median age at first marriage (age 25-49) for urban women (19.8) is 1.7 years
	more than that for rural women (18.1).
Reimagining	Context: SHGs were created for providing financial access and gradually metamorphosed into
Self-Help	the world's largest microfinance program, where multiple agencies, NGOs, governments, banks
Groups (SHGs)	work in unison.
	• The first SHG was linked by Bangarpet Branch of Vysya Bank in Kolar district, Karnataka.

	• RBI made this unconventional idea of linking informal women groups to formal banks,
	possible.
	The salient features of a good SHG are
	Homogeneity
	 Regular meetings
	 Savings
	 Book-keeping
	 Accessing bank credit (usually 4-times their savings)
	 Inter-lending and on-time repayment.
	Progress of SHGs
	• SHGs moved a long way, from the policy intention in 1992, to link 500 SHGs to banks.
	Now, there are about 1.2 crore SHGs. Their equipment of the second system ± 1.02000 errors
	 Their savings deposit is about, ₹37,500 crore and outstanding credit ₹1,03,000 crore. Dut success a lase substanding area 600 stables at 20 lable (₹15,000 crore).
	• But, average loan outstanding per SHG at about ₹1.80 lakh (₹15,000-per member-
	considering 12 women per SHG) and percentage of non-credit linked SHGs at about 50
	per cent has almost remained same.
	Considerable investments in community mobilisation through SHGs and capacity
	building resulted in social capital, manifested as women empowerment and credit-
	discipline.
	Linkage between Microfinance Institutions (MFIs) and SHGs
	• MFIs began operations in early 2000s, initially in southern India. MFIs include, NBFC-
	MFIs, NBFCs, SF <mark>Bs, banks and others which</mark> provide micro loans. About 200 such entities
	exist.
	• They currently have about 10 crore loan accounts with loan outstanding of about
	₹2,47,000 crore. <mark>Per member Ioan is about</mark> ₹40,000
	 SHGs cater to the poorest and mostly rural clients and MFIs usually peri-urban.
	 SHGs lend to members taking loans from banks. MFIs provide loans to clients through
	Joint Liability Groups (JLG), comprising of about five members. They are jointly and
	severally responsible for loan repayment.
	 Clients of SHGs and MFIs are predominantly women.
	• The process of Joint Liability Group formation and loaning is not as intensive, when
	compared to SHGs.
	• MFIs operate in the social sector but are profit oriented whereas SHGs share profits
	from group lending amongst members.
	• The NPA level, in both these programmes, is almost the same at 4-5 per cent.
	• Interestingly about 70 per cent of the current loan portfolios of MFIs is in south and
	eastern region where SHG movement is strong because of State patronage. The
	outstanding loans to SHGs is about 50 per cent in this region.
	• MFIs are cost effective vehicle for providing loans as compared to commercial banks
	which have an advantage in providing bulk loans
	Way Forward
	• Many rural bank branches can also provide micro loans when/if they strategise to
	increase business by providing loans to their existing eligible clients.
	 Further, if banks use the credit-card model of fixing loan limits, contours of micro credit
	will be changed for good.
	• If, NGOs and Corporate Banking Correspondents, transform themselves into an intermediany hand holding SHGs, providing financial literacy, guiding them with micro
	intermediary; hand holding SHGs, providing financial literacy, guiding them with micro-
	enterprises, ensuring end use of credit, marketing assistance and repayment,
	livelihoods will improve.
	If first loss default guarantees to banks can also be provided it would be wonderful.
India's digital	Context: The 2017 National Health Policy's mandate was to bring India closer to achieving
health mission	universal health coverage.

 Electronic health records are most useful to public health research. In the absence electronic health records, data for public health research studies is usually collected public health agencies or research institutes as part of an ongoing or new study. This requires time to plan the study, recruit participants, and train field staff before ti actual data collection. To facilitate longitudinal analysis, such data collection also needs to be carried out pre-decided future intervals that could be months or years apart. The limitations to this include high cost and lengthy durations of time. Having acce to pre-collected data will address both these limitations. Most importantly, data fro the health ID is likely to be more complete as compared to most hospital records India, which comprise of paper prescriptions or manual register entries. The COVID-19 pandemic has made it clear that to obtain evidence-based findings reworld data needs to be available. While there is no doubt that with prior health record a doctor or physician can flag the severity of COVID-19 for someone who has a histo of diabetes or bload pressure, the reverse of this is also true. Using medical history and disease end-point data, unknown risk factors of the disea can also be identified. This would require that electronic health records be maavailable and supplemented with additional information of the patien health record. Unique Health ID One of ABDM's objectives is to develop a repository of verified hospitals, clinics, docto physicians, nurses, and pharmacies. As claimed by the ABDM, this will help filter out all ti unscrupulous medical entities to avoid fraud. The ABDM relies on the premise of creating unique health ID (identifier) for Indians. The idea is to allow an individual to integrate all their health records on one platform. Subjet to the consent of the participating individual/patient, their health data will be made	 This policy envisioned healthcare access of the highest level to all age groups, and th use of a preventive approach for treating diseases. In its implementation, the Ministr of Health and Family Welfare (MoHFW) acknowledged that to achieve these aims, Indi needs to digitise healthcare. Commonly referred to as the Ayushman Bharat Digital Health Mission (ABDM), it establishment was recommended by India's National Digital Health Blueprint under committee set up by the MoHFW. The growing need to introduce electronic health records In the current form, ABDM lays little emphasis on the use of this health data by th public health research community.
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The involved digital infrastructure for storage and accessing this data will be built on the	 same individual. ABDM claims that this will allow individuals to keep certain medical records privat such as those relating to sexual history. Armed with a retrospective medical history of the patient, a physician can make better diagnoses. This will improve quality of treatment and overall healthcare, and bring dow financial costs for the patient. Subject to the consent of the participating individual/patient, their health data will b made available for use by the treating doctor or physician, and more parties such a
National Health Stack.	Technological Infrastructure The involved digital infrastructure for storage and accessing this data will be built on th National Health Stack.

• The stack is a collection of pre-written code (or commonly referred to as APIs) specific
to interface with the ABDM system.
• This will be one platform where those interested (and approved) file for insurance
claims, can perform analytics in addition to storing individual health data and hosting
the repository of various medical agencies.
 This health stack will also integrate with payment gateways.
Currently, around 14 crore users have enrolled for a health ID with the ABDM and the
programme has been piloted for a year in six union territories in India.
What are the challenges?
Although ABDM is visionary and can be the much-needed digital intervention to improve
healthcare access in India, its implementation and overall objectives need more thought. There
are some issues that can be foreseen. These include patient-physician trust, technological
challenges, and data protection.
• Public Trust: In instances where remote or specialised consultation is being sought, a
new physician or a doctor will need to gain the patient's trust for obtaining consent of
the patient to share their electronic health records.
• Internet Connectivity Problems: The public sector IT systems lack faster internet speed,
robust websites, and lags in providing a seamless user experience. For a country where
rates of computer illiteracy are high, interfaces need to be kept simple and should be
more user friendly.
• Training Personnel in Rural Areas: There is the issue of citizens living in rural areas
accessing such a facility digitally. These citizens would need to rely on their treating
doctor or physician, who is local to them, to register them for the health ID.
• This treating doctor or physician would also need to be trained in dealing with
patients' personal details and, most importantly, the fact that enrollment into
the ABDM Health ID is voluntary, and not mandatory.
• Explanation on how the system works and the involved intricacies would also
need to be communicated to allow citizens, especially in rural areas, to make an
informed decision.
 Data protection: In the absence of data protection laws, both storage of one's health data and its use will need to be governed by well laid down rules, even if there is consent
data and its use will need to be governed by well laid down rules, even if there is consent by the individual/patient.
 Currently, there is a Data Empowerment and Protection Architecture (DEPA)
drafted by the NITI Aayog in 2020 to govern access of such data by public and
private agencies.
 For ABDM, the DEPA entails that if the individual/patient provides consent then
their data can be shared to the agency requesting access.
 Granting of 'consent' to a doctor or any other involved agency such as insurance
companies should not mean that the data can be used for any other purpose
than what the consent was granted for or be stored by them locally.
• Informed Consent: ABDM claims that the individual is at liberty to deny consent in
sharing their data; however, this may lead to some penalisation of the individuals who
do not provide consent. For example, an insurance company may incentivise those who
consent to share their electronic health data and make processes more rigid for those
who do not.
 Additionally, in some cases, consent may be sought from the organisation and
not the individual. This would bypass individual consent for each request and
needs another set of data governing rules, which are well-advertised and
explained to the individual providing consent.
Can you answer the following question?
1. Digitalisation of healthcare in India is a game changer but it must be done with caution
and awareness of the challenges associated with it. Discuss.

Impartiality of the ElectionContext: Chief Election Commissioner (CEC) Sushil Chandra met with Principal Secretary to the Prime Minister, P. K. Mishra, on November 16, where he was "expected to be present."Commission• An official communication from the Law Ministry, which is the administrative ministr of the Commission, said the meeting had been called to discuss electoral reforms.• Also, the Ministry claimed that the session with the CEC and Election Commissioner
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Rajiv Kumar and Anup Chandra Pandey was an "informal interaction".
Why does this raise issues about the functioning of the Commission?
 The "directive" from the PMO has raised concerns about the independent functioning
of the Commission, whose autonomy successive CECs have sought to protect zealously
 The "informal interaction" of the CEC and two other Election Commissioners with the
Prime Minister's Principal Secretary has raised questions about the neutrality of the
Commission, especially when elections to crucial States are around the corner.
 The Election Commission is a constitutional authority whose responsibilities and power
are prescribed in the Constitution of India under Article 324. In the performance of it
functions, the Election Commission is insulated from executive interference.
It is the Election Commission of India which decides the election schedules for the
conduct of elections, whether general elections or by-elections.
Again, it is the Commission which decides on the location of polling stations, assignmen
of voters to the polling stations, location of counting centres, arrangements to be made
in and around polling stations and counting centres and all allied matters.
 The decisions of the Commission can be challenged in the High Court and the Supreme Court of India by appropriate patitions
 Court of India by appropriate petitions. By long-standing convention and several judicial pronouncements, once the actual
process of elections has started, the judiciary does not intervene in the actual conduct
of the polls.
What was wrong in the letter from the Law Ministry to the EC?
 The three ECs are expected to maintain distance from the executive — a constitutional
safeguard to insulate the commission from external pressure and allow it to continue a
an independent authority.
• The EC's communication with the Government on election matters is through the
bureaucracy — either with its administrative ministry — the Law Ministry or the Home
Ministry for the deployment of security forces during elections.
 In such cases, the Home Secretary is often invited in front of a full commission where
the three commissioners are also present. The Law Ministry spells the fine print on law
for the country and is expected not to breach the constitutional safeguard provided to
the commission to ensure its autonomy.
 From former CEC M.S. Gill who had written to the then PM Vajpayee proposing electoral
reforms to former CEC S.Y. Quraishi's letter to former PM Manmohan Singh on the dela
in payment for EVMs by the Law Ministry, election commissioners, have from time to
time written to prime ministers in the past.
 However, in this case, after receiving the letter from the Law Ministry, the CEC conveyed
his displeasure and stayed away from the meeting in which his subordinate official
were present.
 However, the three commissioners did make themselves available for an interaction
with Principal Secretary Mr. Mishra later.
By making themselves available , has the EC acted in good faith?
 Over the last couple of years, several actions and omissions of the commission have come in for criticism.
 For example, during the 2019 Lok Sabha Elections, the EC under Chief Election
 For example, during the 2019 Lok sabila Elections, the EC under Cher Election Commissioner Sunil Arora gave a clean chit to PM Narendra Modi, who in an election
rally in Latur, had referenced his campaign with an appeal on behalf of the arme
forces.

	 The Election Commission of India took the view that Mr. Modi did not violate its rule book. In doing so, the Commission overruled the opinion of the district election officers by stating that Mr. Modi did not seek votes by invoking the Balakot air strikes. In 2021, the Commission's delayed decision in banning election campaigns in the midst of a rampaging pandemic, raised eyebrows. Eventually, when they banned rallies and public meetings of over 500 people, the decision came a day after Mr. Modi cancelled his four scheduled rallies. Nearly 66 former bureaucrats in a letter addressed to the President, expressed their concern over the working of the Election Commission which they felt was suffering from a credibility crisis, citing various violations of the model code of conduct during the 2019 Lok Sabha Elections. Connecting the dots
	Electoral Reforms
	Electoral Bond Scheme
Linking voter rolls to Aadhaar	 Context: Rajya Sabha passed by voice vote The Election Laws (Amendment) Bill, 2021, enabling "the linking of electoral roll data with the Aadhaar ecosystem" as the Opposition walked out in protest. The Bill had been passed by Lok Sabha. The Bill amends the Representation of the People Act, 1950 and the Representation of
	 the People Act, 1951 to implement certain electoral reforms. The 1950 Act provides that a person may apply to the electoral registration officer for
	inclusion of their name.
	• The amendment Bill says the electoral registration officer may require a person to furnish their Aadhaar number for establishing their identity. If their name is already in the electoral roll, then the Aadhaar number may be required for authentication of entries in the roll, but people will not be denied inclusion in the electoral roll or have their names deleted, if they are unable to show their Aadhaar cards.
	What is the government's argument for bringing the Bill?
	 The government says the Bill incorporates various electoral reforms that have been discussed for a long time.
	 The government says linking Aadhaar with electoral rolls will solve the problem of multiple enrolments of the same person at different places. This will consequently reduce electoral malpractices. Once Aadhaar linkage is achieved, the electoral roll data system will instantly alert the existence of previous registration(s) whenever a person applies for new registration. This will help in cleaning the electoral roll to a great extent and facilitate elector
	registration in the location at which they are 'ordinarily resident'.
	 Indeed, this can also allow for remote voting, a measure that could help migrant voters. The four qualifying dates for revision of rolls will help in faster enrolment of those who turn 18.
	• The incidence of multiple entry could also be eliminated which is required in participative democracy.
	• In Parliament, Law Minister said linking Aadhaar with the voter ID card is voluntary. It is not compulsory or mandatory.
	• Government held "many meetings" with the Election Commission before the Bill was brought.
	What are the Opposition's objections?
	• Violation of Right to Privacy: There is criticism that the linking of voter IDs and Aadhaar
	violates the fundamental right to privacy as defined by the Supreme Court in the judgment. There is a view that the Bill could violate secrecy of the vote undermining the
	principle of secret ballots.
	• May not solve problem of voting by non-Citizens: Aadhaar is not proof of citizenship and it is said so very clearly in the Aadhaar Act. There are doubts on how this will prevent non-citizens (especially Nepalis & Bangladeshis) from voting because non-citizens can

	have an Aadhar card. The goal of preventing non-citizens from voting will not be solve with Aadhaar.
	 Mirco-Targeting using leaked data: The other concern is that there is a documenter case that Aadhaar data was being leaked. It could lay the foundation of targeted politic propaganda which is against the model code of conduct as well.
	 In April 2019, the UIDAI complained to police about a Hyderabad-base software company, IT Grids (India) Private Limited, accusing it of illegal procuring details of 7,82,21,397 Aadhaar holders in Andhra Pradesh ar Telangana, and storing these in its databases
	 Voluntary Provision: One of the concerns is whether the Bill's implementation will be successful if the linkage is not compulsory. The Bill says the election registration offic may require the submission of the Aadhaar number both for new enrolments and those already enrolled. The choice not to submit is linked to a "sufficient cause", which will be separately prescribed.
	• Judicial Scrutiny: The tests laid down by the Supreme Court — a permissible law, legitimate state interest and proportionality has not been rigorously examined due lack of deliberation in Parliament.
	 If an individual's refusal to submit the detail is deemed unacceptable, it maresult in loss of franchise. Therefore, the measure may fail the test proportionality.
	 Profiling Concerns: There are allegations that the government would be able to u voter identity details for "profiling the citizens". Can individual votes be tracked that way?
	• While individual identification of voting choices may not be possible with the linkage Aadhaar with voter IDs, it will lead to profiling.
	 Verification of a person's identity is separate from the capturing of the identity which already happening in booths when a person goes to vote. But it may help the government link it to other services where larger schemes may be a service where service
	designed based on the data Conclusion If the Government really has no ulterior motive in the form of triggering mass deletions fro
eta a di ana da	the electoral rolls, it must invite public opinion and allow deeper parliamentary scrutiny befo implementing the new provisions that now have the approval of both Houses of Parliament.
The dispute over Belagavi	Context : The border town of Belagavi has been a part of Karnataka since boundaries we demarcated on linguistic lines under the States Reorganisation Act, 1956. But the inter-Sta border dispute between Karnataka and Maharashtra erupts every now and then.
	 In the most recent instance, trouble began after some Kannada activists blackened the face of a leader of the Maharashtra Ekikaran Samiti (MES) – a Marathi outfit formed demand Belagavi's inclusion into Maharashtra during 'Maha Melava' rally.
	 The rally coincided with the first day of the Legislature session of Karnataka in Belaga on December 13, 2021. In turn, some Marathi outfits burnt the Kannada flag in Kolhapur in Maharashtra. The Comparison of Karnataka in Belaga in Kolhapur in Maharashtra.
	 was widely condemned by Kannada organisations and state government Karnataka. To settle scores, some Kannada activists poured ink on a statue of Chhatrapati Shivaji Bengaluru. MES activists then vandalised a statue of Sangolli Rayanna, a 19th centu icon of Karnataka who fought the British, at Belagavi.
	What are the claims of both states?
	 In 1957, unhappy with the demarcation of boundaries, Maharashtra demander realignment of its border with Karnataka. It invoked Section 21 (2) (b) of the Act, and submitted a petition to the Union Minist
	 It invoked Section 21 (2) (b) of the Act, and submitted a petition to the Union Minist of Home Affairs stating its objection to Marathi-speaking areas included in Karnatak Maharashtra claimed 814 villages, and three urban settlements of Belagavi, Karwar areas
	Nippani, all part of Mumbai Presidency before independence.

• A petition by Maharashtra in the Supreme Court, staking a claim over Belagavi, is currently pending.
 Karnataka has consistently argued that inclusion of Belagavi as part of its territory is
beyond dispute. It has cited the demarcation done on linguistic lines as per the Act and
the later Mahajan Commission Report to substantiate its position.
• Karnataka has argued for inclusion of areas in Kolhapur, Sholapur and Sangli districts
(falling under Maharashtra) as its territory.
• Karnataka started holding the winter session of the Legislature in Belagavi from 2006. It
built a massive Secretariat building in the district headquarters, on the lines of the
Vidhana Soudha in Bengaluru, to reassert its claim.
• In 1960, a four-member committee was formed by both States. The committee could
not arrive at a consensus and respective representatives submitted reports to their
government. In the subsequent decades, chief ministers of both States have met several
times to find an amicable solution but to no avail.
What were the terms of the Mahajan Commission?
• In 1966, at Maharashtra's insistence, then Prime Minister Indira Gandhi established a
one-man commission, the Mahajan Commission (Mehr Chand Mahajan, third Chief
Justice of India) a few months before the 1967 general elections and its report was
released after the elections.
 It recommended that 264 villages be transferred to Maharashtra and that Belgaum and
247 villages remain with Karnataka.
Maharashtra rejected the report, while Karnataka welcomed it. Karnataka argued that
either the Mahajan Commission Report should be accepted fully or status quo
maintained.
 In the following decades, Belagavi has significantly changed on demographic and economic fronts.
 The middle-class core areas and surroundings of the city are predominantly Kannada-speaking people.
 But in and around Belagavi a good number of people speak both Marathi and
Kannada. Intercommunity marriages between the two linguistic groups exist.
What has been the politics around the dispute?
• In the immediate decades of formation of States, no national party, particularly the
Congress which has a social base in both States, was willing to take the risk and address
the dispute. This helped MES sustain its fight with a single agenda to seek Belagavi's
inclusion in Maharashtra.
 MES-supported candidates, who have been winning one or more seats in the district
since the 1957 Karnataka Assembly elections, were defeated in the 2018 Assembly
elections.
• As another election draws close in 2023, MES is keen to revive its political fortunes.
• One factor for renewal of the conflict came from then Chief Minister in 1986 when he
made the Kannada language test mandatory for anyone joining the State Government
service.
• The stoppage of the concession given to linguistic minorities strained relations between
two linguistic groups. Later, CM had to assure Marathi leaders that Kannada would not
be made compulsory in primary education in the border areas.
• The dispute strongly resonates in the cultural arena too. For instance, two sahitya
sammelanas – the 73rd Akhil Bharatiya Marathi Sahitya Sammelana (ABMSS) and the
70th Akil Bharatiya Kannada Sahitya Sammeala – were held in Belagavi in 2000 and
2003, respectively.
 Both events prepared the ground for the re-opening of an otherwise muted issue
issue.
 Well known scholar Y.D. Phadke, president of the 73rd ABMSS, reminded the audience of the unfinished agenda of incorporating Belagavi into Maharashtra

(while noted Kannada writer and journalist Patil Puttappa who presided over th 70th Kannada literary meet said the town will remain part of Karnataka. Connecting the dots Inter-State Council River Water disputes
	ECONOMY
Global Wealth	Context: Global billionaire wealth in 2021 represents 3.5 per cent of global household wealt
Tax on Multimillionaires	 Also, the share of the top 0.01 per cent rose from 7 per cent of global wealth in 199 to 11 per cent in 2021 as per the findings of the latest World Inequality Report 202 showed.
	The concentration of wealth
	• Since the mid-1990s, the richest 1 per cent captured 38 per cent of wealth growth a the global level, the report says.
	 As per the report, the richest 10 per cent own around 60-80 per cent of wealth, ar the poorest half systematically own less than 5 per cent of wealth.
	 The bottom 50% of the global population owns just 2% of wealth and 8 per cent of income, while the top 10 per cent of population owns 76 per cent of total househo wealth and captured 52 per cent of total income in 2021, as per the report.
	 It said that government intervention is key to tackling inequality with social and ta policies. The solutions
	 Economist Thomas Piketty has suggested developing new forms of wealth taxation of
	multimillionaires including a progressive rate of wealth tax with tax rates according to the value of the total amount of wealth owned.
	• What has been happening is a higher concentration of wealth, more wealth inequali and our tax systems so far in most countries in the world have not adapted to this.
	 Such new taxes also makes sense especially when the governments are looking for money to repay the increased debt during Covid times.
	Why the need for Global Wealth Tax?
	 There is a proposal of global wealth tax on multimillionaires, people who own monthan a million dollars or euros and this tax in this proposal is progressive, meaning that the rates are going to be according to the value of the total amount of wealth that one owns.
	 In countries, where wealth is highly concentrated, more rates on the stock of wealt of very wealthy individuals can deliver high amounts of revenues.
	 The global bottom 50 per cent income share remains historically low despite growt in the emerging world in the past decades.
	 The share of global income going to top 10 per cent highest incomes at the world lev has fluctuated around 50-60 per cent between 1820 and 2020 (50 per cent in 182 60 per cent in 1910, 56 per cent in 1980, 61 per cent in 2000, 55 per cent in 2020).
	• However, the share going to the bottom 50 per cent lowest incomes has general been around or below 10 per cent (14 per cent in 1820, 7 per cent in 1910, 5 per ce
	 in 1980, 6 per cent in 2000, 7 per cent in 2020). The top 0.1 per cent of the global population captures more income than the entire bottom 50 per cent.
	 The average annual wealth growth rates among the poorest half of the population were between 3 per cent and 4 per cent per year between 1995 and 2021.
	 The poorest half of the world population only captured 2.3 per cent of overall weal growth since 1995.

	• The top 1 per cent benefited from high growth rates (3 per cent to 9 per cent per year). This group captured 38 per cent of total wealth growth between 1995 and 2021.
	• The share of wealth detained by the world's billionaires rose from 1 per cent of total household wealth in 1995 to nearly 3.5 per cent today, it said.
	Income inequality in gender terms
	 In gender terms, the income inequality is sharp, with women workers getting just one- third of total labour income.
	 Women today get just one-third of all labour income in the world whereas gender parity would mean they get half of that.
	 But currently women earn just one-third of all incomes from work and the situation has increased since the 1990s but at a very slow rate. If we continue at this rate, we need to wait at least a century to reach gender parity.
Census 2021 with	Context: Due to outbreak of COVID-19 pandemic, the Census 2021 and related field activities
a Mixed-Mode	have been postponed.
Approach	Will be the first digital Census
	 Mobile App for collection of data and a Census Portal for management and monitoring of various Census related activities have been developed.
	 State Governments of Bihar, Maharashtra and Odisha have requested to collect <u>caste</u> details
	 The names of the mother tongue and proficiency are to be recorded
	 There is a provision for self-enumeration. Self-enumeration refers to completion of census survey questionnaires by the respondents themselves.
	What is Census?
	 In Census (decennial census), data is collected on demographic and various socio- economic parameters like education, SC/ST, religion, language, marriage, fertility, disability, occupation and migration of the individuals.
	 Office of the Registrar General and Census Commissioner, India under Ministry of Home Affairs, Government of India is responsible for carrying out the census.
	 It provides information on size, distribution and socio-economic, demographic and other characteristics of the country's population.
	 The first synchronous census in India was held in 1881. Since then, censuses have been undertaken uninterruptedly once every ten years.
	• As per the official Gazette, the individual data collected in Census under the Census Act, 1948, are not made public as per the provisions contained in the Act.
	 The individual data are not used for the preparation of any other database, including the National Register of Citizens.
	 Only the aggregated Census data at various administrative levels are released. The Census 2021 will be conducted in 18 languages out of the 22 scheduled languages (under 8th schedule) and English, while Census 2011 was in 16 of the 22 scheduled languages declared at that time.
	 The Census data would be available by the year 2024-25 as the entire process would be conducted digitally and data crunching would be quicker.
	Census Act 1948
	The Census Act 1948, as amended in 1994 defines the act as:, In this Act, unless the context
	otherwise requires —
	(a) "premises" means any land, building or part of a building and includes a hut, shed or other
	structure or any part thereof;
	(b) "Prescribed" means prescribed by rules made under this Act;
	(c) "Vehicle" means any vehicle used or capable of being used for road transport, whether propelled by mechanical power or otherwise

	What is the Registrar-General and Census Commissioner of India?
	Registrar General and Census Commissioner of India, was founded in 1961 by the Government of India, Ministry of Home Affairs.
	• Role: Arranging, conducting and analysing the results of the demographic surveys of India including Census of India and Linguistic Survey of India.
	• The position of Registrar is usually held by a civil servant holding the rank of Joint Secretary.
	 What is the Socio-Economic Caste Census (SECC)? Socio-Economic Caste Census (SECC), which collected the first figures on caste since 1931, is the largest exercise of the enumeration of caste.
	• SECC supplies data to differentiate the socio-economic status of households based on housing, educational status, landholding, differently abled, occupation, possession of assets, SC/ST households, incomes etc.
	• The Census thus provides a portrait of the Indian population, while the SECC is a tool to identify beneficiaries of state support.
Multidimensional	Context: The Resolution of the United Nations General Assembly on 25 September 2015
Poverty	established the 17 Sustainable Development Goals (SDG). SDG 1 in its entirety ("End poverty in all its forms everywhere") is multidimensional in nature and definition. While target 1.1 seeks to eradicate extreme poverty –measured as people living on less than \$1.25 a day (subsequently increased to \$1.90/day), target 1.2 aims at reducing multidimensional poverty, as defined by national definitions, by half.
	In News: NITI Aayog has recently released the state-wise National Multidimensional Poverty Index or MPI in line with the global index released by the United Nations each year. According to Global MPI 2021, India's rank is 66 out of 109 countries. The Global MPI
	• The Global MPI is part of the government's decision to monitor the performance of the country on 29 select global indices.
	 It is an international measure of multidimensional poverty covering 107 developing countries. It was first developed in 2010 by Oxford Poverty and Human Development Initiative
	 It was first developed in 2010 by Oxford Poverty and Human Development initiative and United Nations Development Programme. It is released at the High-Level Political Forum (HLPF) on Sustainable Development of
	 the United Nations in July, every year. The dimensions of poverty range from deprivations of health facilities, education and
	living standards.
	 It is computed by scoring each surveyed household on 10 parameters based on - nutrition, child mortality, years of schooling, school attendance, cooking fuel, sanitation, drinking water, electricity, housing and household assets.
	National Multidimensional Poverty Index (MPI)
	 A national Multidimensional Poverty Index for India will Facilitate formulation of sectoral policies and targeted interventions which contribute towards ensuring that "no one is left behind".
	 This baseline National MPI Report and Dashboard is a landmark first step in bringing multidimensional poverty as a tool to the policy table at the national and subnational levels in India.
	• Enable estimation of poverty not only at the level of the States but also for all the 700 plus districts (600 plus in 2015-16, 700 plus in 2019-20) across twelve indicators, capture simultaneous deprivations and indicator-wise contribution to poverty
	• It is expected that the report will play an instrumental role in sensitizing government, researchers, civil society, citizens, and other stakeholders on the need for and
	importance of MPI as a powerful policy instrument.

• At the higher levels, MPI could be used as an input to the design of development policies schemes, budget allocations, and target setting.
• At the lower levels, for instance, of that of district, MPI could decide priority of
execution and delivery. With every revision of MPI based on new survey data, actions could be redesigned to shift focus to those who need it the most.
NITI Aayog will play a key role in charting this path and supporting the stakeholders in their
actions, through the following approaches.
• The National MPI Project is the first attempt in years to define poverty measures and is aimed at deconstructing the Global MPI and creating a globally aligned and yet customised India MPI.
• The MPI is based on three dimensions health, education, and standard of living with each having a weighting of one-third in the index.
• The household micro data collected at the unit-level for the NFHS serves as the basis of the computation of National MPI. This unit level micro data collected in 2015-16
has been used in the current MPI report to derive an idea of baseline multidimensional poverty i.e. where the country was with respect to MPI before full- scale roll out of the above mentioned schemes.
 The MPI identifies 25.01 per cent of the population as multidimensionally poor. The progress of the country with respect to this baseline will be measured using the NFHS-5 data collected in 2019-20.
MPI Coordination Committee (MPICC): The inter-ministerial coordination committee
constituted under NITI Aayog included Ministries and departments pertaining to areas such
as health, education, nutrition, rural development, drinking water, sanitation, electricity, and
urban development, among others. It also included experts from Ministry of Statistics and Programme Implementation and the publishing agencies – OPHI and UNDP.
Engagement with States: Building consensus on MPI at the subnational level State and Union
Governments are pivotal stakeholders which make up the institutional bulwark of the country.
 With 36 States and Union Territories and over 700 districts –subnational entities represent the myriad socio-political, geographical and economic diversity in the country.
 For a public policy tool such as the national MPI to fully realise its potential, utilisation of its results and findings by State and UT governments is crucial.
 Simultaneously, the success of identification and implementation of reform areas and
actions to improve the lives of households and individuals, would significantly be influenced by the level of adoption at the level of States.
 Therefore, building consensus on the need to create a national MPI and the model
thereof, developing capacities, understanding and appetite for this novel policy tool, with our primary stakeholders, ie., the State governments and policy makers and implementers at the sub-national level, was felt to be imperative at the stage of MPI project design.
The Calculation: The MPI uses the globally accepted methodology developed by the Oxford
Poverty and Human Development Initiative (OPHI) and the United Nations Development
Programme (UNDP). The dimensions of the index have proven to help identify and achieve
targeted policy interventions. The index is calculated by first setting the deprivation cut-offs
for each indicator, i.e., the level of achievement considered normatively sufficient for an
individual to be considered not deprived in an indicator. For example, the individual has completed at least six years of schooling. Such a cut off would be applied to determine whether the individual is deprived in each indicator. Weights are added to each indicator and
a composite metric is then used to calculate the index. Some results

	• Bihar has the highest proportion of people, at 51.91 per cent of the state's population
	who are multidimensionally poor , followed by Jharkhand at 42.16 per cent and Utta Pradesh at 37.79 per cent.
	 Bihar also has the highest number of malnourished people followed by Jharkhane Madhya Pradesh, Uttar Pradesh, and Chhattisgarh.
	 Kerala, Goa, and Sikkim have the lowest percentage of population bein multidimensionally poor at 0.71 per cent, 3.76 per cent and 3.82 per cen respectively.
	 Among the Union Territories (UTs), Dadra and Nagar Haveli (27.36 per cent), Jamm & Kashmir, and Ladakh (12.58), Daman & Diu (6.82 per cent) and Chandigarh (5.9 per cent), have emerged as the poorest UTs in India.
	Can you answer the following questions?
	 The poverty ratio in India is still high means that growth by itself will not be adequa to reduce poverty. Critically analyse.
	2. How does poverty stifle human development? Can poverty alleviation measur address the problem of stifled human development? Critically examine.
Connected Lending	In News: The Reserve Bank of India (RBI) has recently decided to keep on hold the implementation of a recommendation made by an internal working group to issue banking licences to large industrial groups. Many view the RBI's decision as a prudent step to preserve financial stability. What is it?
	 An internal working group of the RBI headed by P.K. Mohanty in November 202 recommended, among other things, that the RBI allow large industrial groups to s up banks. The group's recommendation was seen by analysts as an effort to bring more priva capital into the banking system and help increase lending.
	 The proposal was met with criticism from many experts, including former R governor Raghuram Rajan and former RBI deputy governor Viral Acharya. Many countries across the world either completely ban industrial groups from owni banks or heavily restrict such ownership.
	 The RBI has been mulling the working group's recommendations over the past of year and has accepted some of its recommendations. However, it has decided to p on hold the major recommendation to allow industrial groups to own and opera banks.
	What is the problem with allowing large industrial groups to set up banks?
	 Critics of the working group's proposal argue that giving large industrialists such the Ambanis, the Adanis and the Tatas the licence to own and operate banks will lea to misallocation of capital.
	 The logic behind the opposition is that this could give rise to connected lending, system where the owner of the bank gives their company or companies or connected parties (his friends and families) loans at lesser rates of interest. Basically, if you ov a bank you can lend yourself money at a lower rate of interest for a risky project.
	 For example, a bank owned by the Ambanis may prefer to lend to compani that come under the Reliance Group over those owned by the Tatas or the Adanis.
	 A bank owned by a certain industrial group may also be more willing to offer loans its sister companies even if they do not meet credit standards, critics believe. Such loans are more likely to turn into bad assets and threaten the stability of the financi system.
	 Critics also believe that India lacks the infrastructure necessary to effective implement regulations to prevent such dangerous connected lending.
	 The failure of many private banks in the past due to bad lending decisions too h been cited as a reason to oppose the idea of large industrial groups entering banking

	• Even though private banks maintain better asset quality than public sector bank
	critics still fear that private banks may be more prone to making bad loan decisions
	Are the critics right?
	 Granting bank licences to industrial groups would give these groups easy access t capital. Remember that under the current fractional-reserve banking system, bank possess the rare privilege to create loans out of thin air without a commensurate size of deposits.
	• So, an industrial group that owns a bank can expect an abundant supply of loans from its banking wing. This can potentially lead to serious problems.
	 For example, an industrial group suffering huge losses could use its banking wing t keep itself afloat for a long time.
	 But connected lending <i>per se</i> does not have to be dangerous if the bank management understands that throwing good money after bad is not a wise decision.
	 It should also be noted that banks in general are protected from going bust by the R usually citing the systemic risks posed by bank failures and the desire to prote depositors.
	 Such protection itself, however, raises the risk of moral hazard as it encourages bank to engage in poor lending practices without worrying about the consequences.
	 Even though the IWG clearly says that large business groups will be allowed a promoters of banks only after necessary amendments to the Banking Regulation Ac 1949, former RBI Governor Raghuram Rajan posits that if the Indian banking system was so strong on regulation, the sector would not have had such a large problem of NBA (non performing accets) and had loops.
	NPA (non-performing assets) and bad loans.
Challenge of	Context : The National Statistical Office (NSO) released the Q2 GVA and GDP numbers for F
achieving 9.5%	2021-22, indicating the pace of economic recovery in India after the two COVID-19 waves
growth rate	Key findings of NSO
	• The contraction was highest in the first quarter of 2020-21, gradually easing off in the subsequent quarters.
	 Base Effect was strongest in the first quarter of 2021-22 with real GDP and GVA growth rates of 20.1% and 18.8%, respectively.
	 The base effect weakened in the second quarter with GDP and GVA growth rates at 8.4% and 8.5%, respectively.
	• The base effect is expected to weaken further in the third and fourth quarters of 2021-22.
	 Real GVA for the first half of 2021-22 has remained below the level in the first half of 2019-20 by (-)3.7%.
	• Real GDP for the first half of 2021-22 - This difference is even larger for GDP which (-) 4.4% below the corresponding level in 2019-20.
	 So a strong growth momentum would be needed to ensure that at the end of this fiscal year GVA and GDP in real terms exceed their corresponding pre-COVID-19 levels of 2019-20.
	 Gross Fixed Capital Formation (GFCF) - GFCF shows a positive growth of 1.5% in the second quarter of 2021-22 over its corresponding level in 2019-20. Even then GFCF in H1 of 2021-22 has remained below its corresponding level in 2019-20
	 Private Final Consumption Expenditure (PFCE) – H1 2021-22 remains below its corresponding level in 2019-20. This indicates that investment as well as
	consumption demand have to pick up strongly in the Q3 and Q4 to ensure that the economy emerges on the positive side by the end of 2021-22 as compared to its pre-COVID-19 level.
	Which sectors have boosted growth?
	 In H1 of 2021-22, on the output side, only four of the eight GVA sectors have
	exceeded their corresponding levels in 2019-20. These are

	• Agriculture
	 Electricity, Gas and others.
	 Mining and Quarrying
	• Public administration, Defence and other services. (Q1 5.8% & Q2 17.4%)
	• The upsurge in the growth of public administration, defence sector in the second
	quarter of 2021-22 is due to the Central government's emphasis on capital
	expenditure which started gathering momentum in recent months.
	What measures are required?
	• A strong fiscal support in the form of government capital expenditure is required.
	This is currently being facilitated by the buoyant Centre's gross tax revenues having
	a growth rate of 64.2% in H1 of 2021-22.
	• The nominal GDP growth at 23.9% and the implicit price deflator-based
	inflation at 9.0% in H1FY22 is the key reason for the buoyant tax revenues.
	The Centre's incentivisation of state capital expenditure through additional
	borrowing limits would also help in this regard.
	 According to available information, 11 States in the first quarter and seven
	States in the second guarter gualified for the release of the additional
	tranche under this window.
	Challenges Ahead
	Increase in expenditure is due to food and fertilizer subsidies, MGNREGA and
	extension of the Pradhan Mantri Garib Kalyan Anna Yojana
	• With increase in government capital expenditure with some shortfall in non-tax and
	non-debt capital receipts - fiscal deficit target may come under pressure.
	 In spite of these pressures, it would be advisable for the Centre to continue
	infrastructure spending.
	Connecting the dots
	National Monetisation Pipeline
	National Infrastructure Pipeline
Biofuel Industry	Context: PM Modi, in his address at the COP26, released India's updated NDCs in the form
in India	of five key announcements. The most prominent of these included India's goal to produce
	500 GW of renewable energy by 2030 and its ambitious target to achieve net-zero by 2070.
	The Global Situation
	 The global energy demand is ever rising, projected to reach a whopping 17 billion
	tonnes of oil equivalent in the next decade. According to the BP Energy Outlook
	2019, India's share in the global energy demand is expected to reach 11 percent by
	2040.
	• As emission-heavy fuels like coal, oil and gasoline contribute to 69 percent of the
	national energy supply, this whopping demand will naturally bring adverse climate
	ramifications as well as skewed import dependence.
	• Amidst the anthropogenic climate threat posed by greenhouse gas emissions from
	fossil-based fuels and the looming fear of depleting fossil reserves, biofuels promise
	to be an alternative with many advantages.
	Biofuels as a Sustainable Energy System
	Biofuels provide a sustainable energy system that is renewable, environmentally friendly
	and capable of utilising indigenous raw materials. The most commonly employed method
	for biofuel production involves <i>fermentation</i> , a process in which microbes convert simple
	sugars such as glucose to value-added chemicals by various biochemical pathways.
	• Biofuel production can be carried out at mild temperatures between 25-45 $^\circ C$ in
	contrast to chemical methods (requiring >500 $^\circ\mathrm{C}$), which makes the entire process
	energy efficient.
	In comparison to fossil fuel-derived energy, biofuels project scope not only in
1	reduction of carbon emissions but also ensure self-sufficiency of the raw materials.

Challa	
	nge 1: High Process Cost – Despite the above-mentioned advantages, microbial
	ntation for biofuel production faces a lot of challenges - the process cost is very high parison to commercial fuels. A major fraction of this cost is owed to expensive
	ates such as glucose.
	on the feedstocks used, biofuels are categorised into four generations, each emerging
	prcome the limitations of the previous one.
•	The first generation uses food crops such as corn, sugarcane etc., while the second
•	generation is based on utilisation of lignocellulosic agro-residues such as rice bran,
	wheat bran etc.
•	While the first one leads to the ethical debate of food vs fuel, second-generation
•	feedstocks are in plenty and generally considered a waste.
	• Additionally, food waste from restaurants, kitchens, or supply chain slacks is
	a good source of sugar.
	• Referred to as Municipal Solid Waste (MSW), food waste is a nuisance to the
	environment and public health.
	 India has a huge capacity to produce these feedstocks, generating >300
	million tonnes of agricultural waste every year and nearly 0.3 billion tonnes
	of food waste every year. They are potential substrates for biofuel
	production due to their indigenous abundance, cost-effectiveness and high
	sugar content.
	 Additionally, utilisation of such raw materials also enables a circular
	econom <mark>y.</mark>
Challe	nge 2: Low efficiency of this fermentative production:
•	To compete with market demands, high yields from a low substrate is desirable.
٠	However, utilising agricultural and food wastes means additional steps of pre-
	treatment for breaking layers of cellulose, hemicellulose and chitin respectively
	before carbohydrates can be recovered.
•	This often results in multi-step processing, making the process tedious, expensive
	and inefficient.
•	To improve the yield and process efficiency biotechnological tools such as genetic
India	engineering and process engineering are being applied.
	& the Biofuels: Recent Policy Initiatives dian government has recognised this capacity of indigenous feedstocks for biofuel
produ	
•	The policies are centred around increasing the production of bioethanol using sugar-
•	containing (sugar beet, sweet sorghum etc.) and starch-containing materials (corn,
	damaged food grain, etc.) that are unfit for human consumption.
•	Recognising the lack of capital in this sector, the government has mobilised a
	viability funding gap scheme worth INR 5000 crore for second-generation ethanol
	biorefineries. India also targets a 20 percent <u>ethanol-blending</u> in petrol by 2023-24.
•	Through various domestic and international initiatives in the biofuels industry in the
	last few years, India has reiterated its inclination to explore bio-solutions as yet
	another form of renewable energy and alternative to fossil-based fuels.
٠	Launched the mission "Integrated Biorefineries", a collaborative initiative between
	India and the Netherlands to develop clean energy solutions under Mission
	Innovation Initiative.
	 An integrated biorefinery is a facility that transforms biomass into value-
	added products while recovering as much energy as possible.
	It has the potential to produce bulk and fine chemicals in a robust, self-
	sufficient, sustainable, and ecologically friendly manner.

	 Even before the recent COP26 announcements, India has sought to establish itself in the biofuels sector through international mechanisms in recent years. In the backdrop of PM Modi's visit to the United States in September 2021, India and the US formed a bilateral India-US New Task Force on Biofuels, which will promote technology transfers and develop business models to develop the biofuels sector. In December 2020, the Asian Development Bank approved a US \$2.4 million grant under Asian Clean Energy Fund for supporting biofuels development in India. India also has an MoU with Brazil on Bioenergy Cooperation, which holds an excellent track record of harnessing sugarcane feedstock for biofuels. Biofuels for 'Atma Nirbharta' Will reduce dependence on fuel imports that save foreign reserves and will plug the capital outflow. According to NITI Aayog's Expert Committee, fulfilling the 2025 targets for 20 percent ethanol blending (E20) will save US \$4 billion in forex reserves annually. Address the supply chain vulnerabilities of a fossil-fuel-based energy system. As India's mammoth agricultural waste is generated in the countryside, setting up biofuel manufacturing plants will create localised supply chains. These local supply chains need to be efficient to account for the perishability of feedstock due to pest contamination and weather. It will cut down the logistics and transportation costs of non-renewable energy and insulate the supply chains from geopolitical instability and global economic shocks. Generate semi-skilled employment in rural areas and create additional incomes for Indian farmers. For example, sugar mills may earn an additional profit of US \$2 billion in 2020-21 owing to the ethanol industry. Increasing the purchasing power of rural India would drive consumer demand, which would have a multiplier effect on India's informal economy. Conclusion Biofuel production for self-reliance can become a real
Impact of PepsiCo verdict	resource. Context: Two years ago PepsiCo India had sued nine Gujarati farmers for allegedly infringing patent rights by growing its registered potato variety.
	 However, now the company's registration of the variety has been revoked by the Protection of Plant Varieties and Farmers Rights' Authority (PPV&FRA). The PPV&FRA questioned the documentation produced by PepsiCo claiming it was the owner of the variety, and thus could be considered the Registered Breeder under the law. The wider implications of the verdict for intellectual property rights in the agricultural sector are being examined by farmers' groups as well as seed developers and industrial agriculture companies, both international and Indian. What does the verdict mean for farmers' rights? Although the PPV&FRA verdict largely depended on procedural errors and shortcomings of PepsiCo and the registrar with regard to documentation and transfer of rights between the plant breeder and the production company, it does touch briefly on the protection of farmers' rights and public interest. "Farmers have been put to hardship including the looming possibility of having to pay huge penalty on the alleged infringement they were supposed to have been committing which violated the public interest" said the judgment.

	 The verdict sent a strong signal to those who hold intellectual property rights for seeds that the unique rights that the PPV&FR Act provides Indian farmers are not to be transgressed.
	What is the difference in rights provided under law to farmers and breeders?
	 'Producing from a variety', including a farmer saving seed and using unbranded seed from a harvest, is very different to 'producing a variety', which involves breeders following complex technical procedures that farmers largely do not have the skills for.
	• There is no risk of commercial competition for the IPR owner in the first case, when harvests are meant for consumption, processing and the grocery market, unlike in the latter case when harvests are meant for further planting and multiplication of the genome or to generate heterosis in hybrid varieties
	Does the PPV&FR Act encourage innovation and protect intellectual property rights of
	seed developers?
	 The biggest problem with the law is the lack of proper enforcement, according to the seeds industry.
	 There must be a mechanism to catch and punish those who illegally sell the variety, but enforcement is left to States and is uneven. The rampant spread of
	 unauthorised and genetically modified HTBt cotton seeds as an example of this. The unique protections provided to farmers in India can act as an enforcement
	loophole given the grey area between farmers and aggregators.
	 A farmer is allowed to grow protected varieties, sell the produce, even sell the unbranded seeds under the law, and that intention is good. But there is ambiguity on what happens when many farmers sell registered seeds to an aggregator who collects it and then sells it in a branded fashion, or sells to a competitor.
	 If the aggregator owns an acre of land somewhere, he may also call himself a farmer, and therefore there is a possibility of pilferage of the parent seed from farmers' fields to other farmers.
	 Other issues with PPV&FR implementation which obstruct innovation include the slow turnaround time for registration of varieties and the requirement that companies submit parent seeds when applying for registration.
	 As a result, not just foreign investment, even domestic investment in innovation is low because of lack of protection of IPR.
	 The Indian seed market has annual revenues of ₹20,000 crore, but less than 3% or about ₹500-600 crore is ploughed back into research, in contrast with 10-12% which is the global standard.
	How does contract farming law impact the issue?
	 With the first national contract farming law passed by Parliament in 2020 being
	repealed in Nov 2021 under pressure from protesting farm unions, there is no
	uniformity among the few State laws that exist.
	• The seed industry, which depends on farmers for seed production, prefers to deal
	with local contractors rather than sign direct contracts with farmers.
	• If a contract is violated, there is no way for private players to enforce it at the village level, so it is better to deal with a local player and form tripartite agreements. Also, it is inconceivable for any company to sue a farmer given that PepsiCo and
	Monsanto have faced political and public backlash for doing so.
	Connecting the dots:
	 India's IPR policy. IPR waiver for COVID-19 Vaccines
Multistate	• IPR waiver for COVID-19 vaccines Context: Recently, Union Cooperation Minister Amit Shah announced that the Centre has
Cooperatives	decided to amend the Multi State Cooperative Societies (MSCS) Act, 2002 to "plug the
	loopholes in the Act".

What is the Act, and what are multistate cooperative societies?
• Cooperatives are a state subject, but there are many societies such as those for sugar and milk, banks, milk unions etc whose members and areas of operation are spread
 across more than one state. The Act was passed to govern such cooperatives. For example, most sugar mills along the districts on the Karnataka-Maharashtra border procure cane from both states. They draw their membership from both states,
and they are thus registered under the MSCS Act.
 Their board of directors has representation from all states they operate in. Administrative and financial control of these societies is with the central registrar, with the law making it clear that no state government official can wield any control on them.
 Since the law was enacted, 1,479 such societies have been registered, of which 9 have been deregistered since.
 Maharashtra has the highest number at 567, followed by Uttar Pradesh (147) and New Delhi (133).
• Credit societies constitute the bulk of registered societies at 610, followed by agro- based ones (which include sugar mills, spinning mills etc) at 244. There are 96 multistate cooperative dairies and 66 multistate cooperative banks.
Why does the government plan to amend the Act?
 Experts on cooperatives talk of loopholes in the Act.
• The exclusive control of the central registrar, who is also the Central Cooperative Commissioner, was meant to allow smooth functioning of these societies.
• The central Act cushions them from the interference of state authorities so that these societies are able to function in multiple states. What was supposed to facilitate smooth functioning, however, has created obstacles.
 Experts pointed out for state-registered societies, financial and administrative control rests with state registrars who exercise it through district- and tehshil-level officers.
 Thus if a sugar mill wishes to buy new machinery or go for expansion, they would first have to take permission from the sugar commissioner for both. Post this, the proposal would go to the state-level committee that would float tendors and carry out the process.
 tenders and carry out the process. While the system for state-registered societies includes checks and balances at multiple layers to ensure transparency in the process, these layers of checks &
balances do not exist in the case of multistate societies.
 Instead, the board of directors has control of all finances and administration. For expenditure above a certain level, the annual general body meeting of the society has to be called.
 Many experts have noted there is an apparent lack of day-to-day government control on such societies. Unlike state cooperatives, which have to submit multiple reports
to the state registrar, multistate cooperatives need not.
• The central registrar can only allow inspection of the societies under special
conditions — a written request has to be sent to the office of the registrar by not less than one-third of the members of the board, or not less than one-fifth of the number
of members of the society. Inspections can happen only after prior intimation to societies.
• The on-ground infrastructure for central registrar is thin — there are no officers or
offices at state level, with most work being carried out either online or through correspondence.
 For members of the societies, the only office where they can seek justice is in Delhi,
with state authorities expressing their inability to do anything more than forwarding their complaints to the central registrar.
 There have been instances across the country when credit societies have launched ponzi schemes taking advantage of these loopholes. Such schemes mostly target

	small and medium holders with the lure of high returns. Fly-by-night operators ge people to invest and, after a few instalments, wind up their operations.
	 In Maharashtra, the state commissioner used to get multiple complaints of this nature but could not take any action, given the lack of ground state necessary for verifying the antecedents of such societies.
	What kind of amendments can be expected?
	 The Centre is holding extensive consultations with experts from various fields bankers, sugar commissioners, cooperative commissioners, housing societie
	federations etc.
	 Central government will also increase their manpower, first in Delhi and then in th states, to ensure better governance of the societies.
	 Also, technology will be used to bring in transparency.
	 Some suggest that administrative control of such societies should be vested in th state commissioners. This way, day-to-day control can be wielded to ward off case
	of fraud.
	Connecting the dots:
	<u>Ministry of Cooperation</u>
	<u>SC judgment on Cooperative amendment</u>
Suspension of	<u>Cooperative Sector Reforms</u> Context: The Securities & Exchange Reard of India (SERI) recently issued directions to stop
Suspension of futures trading in	Context : The Securities & Exchange Board of India (SEBI) recently issued directions to stoc exchanges in commodity derivatives segment for immediately suspending trading i
agri products	derivative contracts in key farm commodities namely paddy (non-basmati), wheat, chan
-8 p	mustard seeds and its derivatives, soya bean and its derivatives, crude palm oil & moong fo
	a year.
	 The derivative contracts in these commodities were already suspended, as per a SEI
	press release dated August 16, 2021 and October 08, 2021, respectively.
	What are derivative contracts?
	 Derivative contracts are contracts between two or more parties where the derivative
	value is based upon an underlying asset, in this case agri commodities.
	 The price of the derivatives are established by the price fluctuations of the underlyin
	assets.
	 Derivatives can be traded on an exchange or over the counter (OTC).
	 How does the system work and what are derivatives trading? Derivatives trading takes place when traders speculate on the future price of an asse
	through buying or selling of derivative contracts to maximise profit as compared t
	buying the underlying asset outright.
	 Traders also use derivatives for hedging to minimise risk against an existing position
	With derivatives, traders can go short and make profit from falling asset prices.
	 They also use derivatives to hedge against any existing long positions.
	• The ultimate objective is to profit. This is viewed as a deterrent to bring in price
	discipline in the market.
	What does the SEBI order mean?
	 Now no new contract will be introduced till SEBI's further orders.
	 In respect of running contracts, no new position will be allowed to be taken. Onleast squaring up of position has been allowed.
	 squaring up of position has been allowed. The imports of such commodities especially edible oils would reduce in the short terr
	 The imports of such commodities especially edible ons would reduce in the short terr as traders will not have a hedging platform.
	 Hedging which is speculative in nature has been made difficult. This will lead t
	release of blocked local produce supplies into the market which should cool th
	prices, and imports of commodities for speculative gains will be discouraged.
	Why suspension?

	 Control Inflation: To reign in on the rising prices of these essential commodities which is fuelling inflation. It is believed that speculators have a role in jacking up of prices and this needs to be discouraged to curb inflation Curb Imports: India is the world's biggest importer of vegetable oils and this measure will make it difficult for edible oil importers and traders to transact business since they use Indian exchanges to hedge their risk. Growth agenda of Government: The suspension of trading in these commodities follows a communication from the Department of Economic Affairs which is closely monitoring price movements. Such measure will also help in supporting growth as the economy is recovering from the COVID-19 impact. How alarming is inflation? As per RBI governor's recent monetary policy statement, CPI inflation ticked up in October 2021 to 4.5% from 4.3 in September, after falling sharply between June and September. The persistence of high core inflation (i.e., CPI inflation excluding food and fuel) since June 2020 has been an area of policy concern as input cost pressures could rapidly be transmitted to retail inflation as demand strengthens. RBI governor's assessment is that price pressures may persist in the immediate term. He observed that supply side interventions by the government have limited the fallout of continuing high international edible oil prices on domestic prices. While cost-push pressures continue to impinge on core inflation, the inflation prints are likely to be somewhat higher over the rest of the year as base effects turn adverse. However, it is expected that headline inflation will peak in Q4:2021-22 and soften thereafter. RBI has projected CPI inflation at 5.3% for FY22. What is being done to deal with it? Besides suspension of futures trading in key farm commodities by the SEBI, the government and the RBI are undertaking multiple interventions
	 The Union & State Governments had also recently reduced excise duty and VAT on petrol and diesel which was aimed at bring down inflation by way of direct effects as
	well as indirect effects operating through fuel and transportation costs.
Year End Review:	1. Export Target of US\$ 400 billion for Merchandise in 2021-22
Ministry of	2. Export Performance
Commerce and Industry	 India's exports have been performing extremely well in last 8 months with exports exceeding USD 30 billion for the 8th consecutive month in the current financial year.
	 b. The cumulative value of exports during April-November 2021 has been estimated at USD 263.57 Billion compared to USD 174.16 Billion during April-November 2020, which is a positive growth of 51.34 percent.
	c. India's services exports remained relatively resilient to the pandemic which
	impacted world trade in commercial services in 2020. India's share in world commercial services exports has increased from 3.5% in 2019 to 4.1% in 2020, leading to improvement of India's rank in leading exporters of commercial services from 8th to 7th in 2020.
	3. Ease of Doing Business
	a. In order to provide policy stability during the pandemic period, Foreign Trade

	 Exemption from Integrated Goods & Service Tax and Compensation Cess under Advance Authorizations (AA)/ EPCG, EOU scheme extended up to 31st March 2022.
	c. IT systems of DGFT revamped with API based message exchange with community partners on export promotion schemes.
	 d. The common eCoO portal has been extended for issuing non-preferential certificates of origin also.
4	Implementation of RoDTEP Scheme
4.	a. The Scheme creates a mechanism for reimbursement of taxes/ duties/ levies,
	which are currently not being refunded under any other mechanism, at the central, state and local level, but which are incurred in the process of manufacture
	and distribution of exported products.
	b. Major component of such taxes is electricity duty and VAT on fuels used in transportation (distribution
	transportation / distribution. c. The RoDTEP Scheme operates with an end to end digitization and no separate
	application is required to be filed to claim RoDTEP benefits.
5.	Service Exports from India Scheme (SEIS) launched: Aims to promote export of services
	from India by providing duty scrip credit for eligible exports. Under the scheme, service providers, located in India, would be rewarded under the SEIS scheme, for all eligible
	export of services from India.
6.	India and Mauritius signed the Comprehensive Economic Cooperation and Partnership Agreement (CECPA)
	 First trade Agreement signed by India with a country in Africa.
	b. The Agreement is a limited agreement, which will cover Trade in Goods, Rules of
	Origin, Trade in Services, Technical Barriers to Trade (TBT), Sanitary and
	Phytosanitary (SPS) measures, Dispute Settlement, Movement of Natural Persons, Telecom, Financial services, Customs Procedures and Cooperation in
	other Areas.
	c. Provides for an institutional mechanism to encourage and improve trade between the two countries.
	d. Covers 310 export items for India.
	e. As regards trade in services, Indian service providers will have access to around 115 sub-sectors from the 11 broad service sectors.
7	India-UAE Comprehensive Economic Partnership Agreement (CEPA) Negotiations
/.	a. Both sides reiterated the importance of the India-UAE CEPA and its potential to
	not only expand economic and investment opportunities, but mark a new phase of cooperation and collaboration
	b. This new strategic economic agreement is expected to increase bilateral trade in
	goods to US\$ 100 billion within five years of the signed agreement and increase trade in services to US\$ 15 billion.
8.	India-Australia Comprehensive Economic Cooperation Agreement (CECA) Negotiations:
	The key negotiating subjects are Trade in Goods, Services, Investment, Rules of Origin, Customs Facilitation, Legal and Institutional issues etc.
9.	BRICS Trade Fair 2021 during 16th to 18th August 2021 (Virtual): BRICS Trade Fair, an
	initiative of the Department of Commerce, witnessed the participation of over 5000
	delegates, and the event had over 2500 pre-fixed B2B meetings. The Trade Fair also saw
	over 8000 Virtual booth visits by the business delegates, which attributed to over 2000
	business interactions.
10	. India Pavilion at World Expo 2020 at Dubai
	a. This is the first expo that was held in MEASA (Middle East, Africa and South Asia)
	region.

b.	The main theme of World Expo 2020 is "Connecting Minds, Creating the Future".
	The main theme is further branched into three sub themes of the Expo viz Opportunity, Mobility and Sustainability.
c	World Expo, Dubai is expected to herald the revival of global economy post the
	COVID-19 pandemic with participation of more than 190 countries and 25 million expected visitors.
Ь	India Pavilion at the Dubai Expo has turned out to be a huge draw, registering
	another landmark by receiving more than six lakh visitors in just 83 days of its
11 6	opening.
	nment e-Marketplace (GeM): Open and Transparent Procurement A total 31.8 Lakh vendors have been onboarded on GeM, out of which 7.39 Lakh
a.	are MSMEs, which constitute about 23% of the vendor base and contribute over
	57% of the cumulative Gross Merchandise Value on GeM.
0.	GeM has drastically brought down waiting time and prices for buyers and ensured timely payments to the sellers. It has enabled various modes of procurement as prescribed in GFR and has made available various analytical tools to facilitate
	buyers to make informed decision while making procurement.
с.	GeM has created a Unified Procurement System for the country in line with the
	vision of the Government, will consolidate the scattered vendor bases on
	publishing portals onto GeM leading to advantages of economies of scale, better
	price discovery and dissemination of best practices in procurement.
12. Natior	nal Logistics Policy
	National Logistics Policy has been developed on the supply and demand side and
	takes a comprehensive view of the sector defining specific action points with the
	key objective of matching and improving upon global standards in logistics
	efficiency and to integrate with Global supply chains.
b.	A 75-point National Logistics Reform Action Plan has also been prepared with
	specific actionable items on the policy.
с.	The Policy targets to reduce the cost of logistics by about 5% over the next 5 years,
	achieving a ranking in top 25 of major global logistics-related performance indices, and encourage environmentally sustainable, inclusive and future ready logistics.
13. PM Ga	iti Shakti NMP: PM Gati Shakti National Master Plan for multi-modal infrastructure
	ctivity to Economic Zones which is an Integrated Plan depicting Economic zones and
	modal Connectivity Infrastructure on a GIS Platform was launched to holistically
	ate individual interventions of various Ministries/Departments with a national
_	ective and provide coordinated IT enabled Map based approach to planning,
	tions and monitoring of projects.
	gistics Performance Index (LPI) released every two years by the World Bank is one
	most widely referred reports used to assess logistics performance of countries. On
	dex, India was ranked 44 out of 160 countries in 2018 vis-à-vis rank of 54 in 2014
	recent study conducted till date is in 2018).
	Infrastructure for Export Scheme (TIES): Launched with the objective to enhance
	competitiveness by supporting development of export linked infrastructure that
-	utilized by multiple exporters.
	(port Policy (AEP)
-	Five States and one UT have finalized the State specific Action Plan viz. Mizoram,
	APEDA signed an MoU with NAFED for strengthening the export linkage of Farmer Cooperatives.
	In pursuance to the series of interactions held with Amazon Web Services (AWS)
	team, the approval was accorded for executing two pilot projects for the
	proposals submitted on Blockchain traceability for GI Mangoes (Alphonso) and
	Digital assaying at APEDA packhouses.
	טאינטי משטעאווא מי הו בשה אמטיווטמשבשי

	 d. Blockchain Technology in GrapeNet: APEDA implemented Blockchain solution a part of its GrapeNet traceability system. The Blockchain technology helped tracking all the activities and steps involved in the grape lifecycle, right from farmallocation to the delivery of grapes. 19. Rubber Census: Rubber Board is conducting nationwide census on rubber by usin digitalized mobile application, 'RUBAC', developed in association with Digital Universitt Kerala, with a view to ascertain the area under rubber, new-planted area, re-planted area the age profile of trees, discarded area over the years, level of adoption of new clone size of holdings and details of tappers etc. 20. Collaborative Project for rubber plantation development in NE region: a. A project for supporting development of new rubber plantations in North East an improving quality of processed forms of rubber with a contribution of Rs.1,100 crore from major tyre companies, represented by Automotive Tyre
	Manufacturers Association (ATMA) The plan is to develop 2,00,000 ha of rubber plantations in North East in five years.
	ENVIRONMENT
Kasturirangan Committee in Western Ghats	 In News: On December 4, Karnataka Chief Minister informed the Centre that the state is oppose to the Kasturirangan Committee report on Western Ghats. He said that declaring Western Ghats as ecologically sensitive zone would adversely affect the livelihood of people in the region. However, the experts called the state's opposition disastrous for the ecologically fragil Western Ghats. What are the recommendations of the Kasturirangan committee report? The Kasturirangan committee report proposes 37 per cent of the total area of Wester Ghats, which is roughly 60,000 square kilometres, to be declared as eco-sensitive are (ESA). Out of this, 20,668 sq km of the area falls in Karnataka covering 1,576 villages. T The report recommended a blanket ban on mining, quarrying, setting up of red categor industries and thermal power projects. It also stated that the impact of infrastructural projects on the forest and wildlife shoul be studied before permission is given for these activities. It also stated that the UNESCO Heritage tag is an opportunity to build global and domest recognition of the enormous natural wealth that exists in the Western Ghats. The 39 sites are located across the Western Ghats and distributed across th states (Kerala 19), Karnataka (10), Tamil Nadu (6) and Maharashtra (4). The boundary of the sites, are in most cases, boundaries of the legally demarcate national parks, wildlife sanctuaries, tiger reserves and forest divisions an therefore, already accorded with high level of protection. The Eco-Sensitive Area mapping and demarcation done by the committee als indicates that all sites are within this area. The state of Karnataka has the highest percentage of the ESA-46.50 per cent.



	Connecting the dots
	Environment Impact Assessment(EIA)
	Sustainable Development Goals
The push for Zero Budget Natural Farming (ZBNF)	 Context: Zero budget natural farming (ZBNF) is back on top of the Government's agricultural agenda, with Prime Minister Narendra Modi set to highlight it at a national conclave in Gujarat. The Centre has sanctioned support for converting four lakh additional hectares of crop land in eight States to using ZBNF techniques this year. This is meant to provide a showcase for their benefits although scientific studies on the method have not yet been completed.
	What is it and how did it come about?
	 Zero budget natural farming is a method of chemical-free agriculture drawing from traditional Indian practices. It was originally promoted by agriculturist and Padma Shri recipient Subhash Palekar who developed it in the mid-1990s as an alternative to the Green Revolution's method driven by chemical fertilizers, pesticides and intensive irrigation.
	• He argued that the rising cost of these external inputs was a leading cause o indebtedness and suicide among farmers, while the impact of chemicals on the environment and on long-term fertility was devastating.
	 Without the need to spend money on these inputs — or take loans to buy them — the cost of production could be reduced and farming made into a "zero budget" exercise breaking the debt cycle for many small farmers. The "four wheels" of ZBNF are 'Jiwamrita', 'Bijamrita', 'Mulching' and 'Waaphasa', say Palekar
	Jiwamrita • It is a mixture of fresh cow dung and aged cow urine,
	 jaggery, pulse flour, water and soil. This is a fermented microbial culture that adds nutrients to the soil and acts as a catalytic agent to promote the activity of microorganisms and earthworms in the soil. About 200 litres of jivamrita should be sprayed twice a month per acre of land; after three years, the system is supposed to become self-sustaining. Only one cow is needed for 30 acres of land, according to Mr. Palekar, with the condition that it must be a local Indian breed — not an imported Jersey or Holstein.
	Bijamrita It is a mix of desi cow dung and urine, water, bund soil and lime that is used as a seed treatment solution prior to sowing.
	MulchingIt is covering the plants with a layer of dried straw or fallen leaves, is meant to conserve soil moisture and keep the temperature around the roots at 25-32 degrees Celsius, which allows the microorganisms to do their job.
	Waaphasa It is providing water to maintain the required moisture-air
	 balance, also achieves the same objective. Mr. Palekar is against vermicomposting, which is the mainstay of typical organic farming, as it introduces the most common composting worm, the European red wiggler (<i>Eisenia fetida</i>) to Indian soils. He claims these worms absorb toxic metals and poison groundwater and
	soil.

•	Promotes Better agronomic practices: The ZBNF method promotes soil aeration, minimal watering, intercropping, bunds and topsoil mulching and discourages intensive irrigation and deep ploughing.
•	
	that farming – particularly smallholder farming – is economically viable by enhancing farm biodiversity and ecosystem services.
•	 Reduces Cost to Farmers: Through eliminating external inputs and using in-situ resources to rejuvenate soils, the farmers cost is reduced whilst simultaneously increasing incomes, and restoring ecosystem health through diverse, multi-layered cropping systems. Efficient use of Cow dung: Cow dung from local cows has proven to be a miraculous cure to revive the fertility and nutrient value of soil. One gram of cow dung is believed to have anywhere between 300 to 500 crore beneficial micro-organisms. These micro-organisms decompose the dried biomass on the soil and convert it into ready-to-use nutrients for
•	plants. Environment Friendly: Zero budget natural farming requires only 10 per cent water and 10 per cent electricity than what is required under chemical and organic farming. ZBNF may improve the potential of crops to adapt to and be produced for evolving climatic conditions.
ls it e	ffective?
•	A limited 2017 study in Andhra Pradesh claimed a sharp decline in input costs and improvement in yields.
•	
•	ZBNF critics, including some experts within the central policy and planning think tank NITI Aayog, note that India needed the Green Revolution in order to become self-sufficient and ensure food security.
•	Critics warn against a wholesale move away from that model without sufficient proof that yields will not be affected.
•	Sikkim, which has seen some decline in yields following a conversion to organic farming, is used as a cautionary tale regarding the pitfalls of abandoning chemical fertilizers. In 2019, soon after Prime Minister praised ZBNF while addressing a United Nations conference on desertification, the National Academy of Agricultural Sciences wrote to Mr. Modi warning against promoting the method without sufficient research to assess
Whic	its long-term impact. h are the States with big plans?
•	The Centre has sanctioned the proposals of eight States for support under the
•	Paramparagat Krishi Vikas Yojana scheme this year. Andhra Pradesh has the biggest ambition to bring one lakh additional hectares of land under ZBNF under the scheme, followed by Chhattisgarh, with 85,000 additional hectares and Gujarat, with 71,000 additional hectares.
•	Government has said the proposals being implemented under the scheme would be used to showcase the benefits of the method.
What	t lies ahead?
•	strategies to implement it at valedictory session of a three-day national summit on agro and food processing, with a focus on natural farming, which is being held in Anand, Gujarat. Over 5,000 farmers are expected to be present in person.
•	So far as scientific validation is concerned, all eyes are focussed on the Indian Council of Agricultural Research, which is conducting studies on the ZBNF methods practised by basmati and wheat farmers in Modipuram (Uttar Pradesh), Ludhiana (Punjab), Pantnagar
	 (Uttarakhand) and Kurukshetra (Haryana), evaluating the impact on productivity, economics and soil health including soil organic carbon and soil fertility. The Agriculture Secretary said such studies needed at least three years to arrive at a discussion.
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	conclusion.
India reject	Context : On December 13, India joined Russia in opposing a draft proposal at the United
UNSC draft	Nations Security Council which would effectively bring climate change in the Security Council's
on climate	purview.
	 This would have allowed UNSC to enforce and hold countries accountable for their promises to mitigate global warming.
	• The proposal was sponsored by Niger and Ireland, who claimed that 113 countries, which included permanent Security Council members U.S., the U.K., and France, backed their view to integrate climate-related security risks into the UNSC's conflict prevention mandate.
	 However, after a heated debate and a strong counter by India, the proposal was vetoed by Russia, and the UNSC recorded 12 in favour, 2 against as well as an abstention from
	China.
	 Why are sponsors keen to introduce climate change into the UNSC mandate? Climate change has been discussed at the UNSC since 2007, and several UNSC statements reference the impact of global warming on conflicts.
	 Both Niger and Ireland pointed out that people in countries most vulnerable to climate
	change are also most vulnerable to terror groups and violence, attempting to connect both to the UNSC's mandate on peacekeeping.
	 They said climate-related conflicts over arable land, food security, desertification and
	forced migration, the increase in climate refugees due to global warming would all eventually lead to conflicts that the UNSC needs to weigh in on.
	 According to a report by Peace Research Institute SIPRI, 10 of 21 ongoing UN
	peacekeeping operations are located in countries ranked as most exposed to climate change.
	 Some commentators in favour, said it was only after 2000 when the UNSC passed
	Resolution 1325 on women, peace and security that gender violence in conflict really entered the debate, and hoped they could do the same for climate.
	 Niger's representative said if the Security Council could pass a resolution on the COVID-
	19 pandemic and health security (UNSCR 2565 (2021)), why could climate security not be addressed there?
	Why did India vote with Russia?
	 India's stand on the proposal is consistent with a desire not to allow the UNSC too broad
	a mandate to "intervene" and overreach on sovereign issues.
	 While the UN Framework Convention on Climate Change (UNFCCC), which held the
	CoP 26 at Glasgow collates the voluntary contributions of countries in order to battle
	climate change and promote sustainability, India believes these are not issues where the UNSC should interfere.
	 India reiterated that it is "second to none" on keeping its climate commitments and
	fighting for climate justice , it would be "misleading" to view conflicts through the prism of climate change worldwide.
	 India even suggested that it would support a more limited draft that focused
	exclusively on the Sahel region of North Africa, where desertification of arid areas is
	directly sparking water-related conflict, but this was not considered, and India then
	recorded its first negative vote in this term at the UNSC.
	 The Chinese representative, also said that UNSC should only consider security risks
	driven by climate change, based on "country-by-country or situation-by-situation" analysis.
	Will the climate security proposal be reviewed and resubmitted?
	איווי נויב טוווומנב שבנטוונץ אוטאסשט אב ובאובשבע מוע ובשטאוווונובע:

 U.K. and France versus Russia and China will only deepen divisions over an i concerns the whole globe and requires an undivided approach. Conclusion As one of the most populous countries in the UNSC at present, and representing a ritself highly exposed to the risks of climate change, India's voice will be important in the debate between securitising climate change, and ensuring the global peacekeep doesn't overstep its mandate. Connecting the dots <u>COP 26 Climate Conference</u> <u>China's Climate Commitments</u> <u>Paris Accord</u> 	nall the issue will and Latin ate change nat was ders the ringing ie U.S., the
 itself highly exposed to the risks of climate change, India's voice will be important in the debate between securitising climate change, and ensuring the global peacekeep doesn't overstep its mandate. Connecting the dots <u>COP 26 Climate Conference</u> <u>China's Climate Commitments</u> 	ssue that
Connecting the dots <u>COP 26 Climate Conference</u> <u>China's Climate Commitments</u> 	n deciding
GEOGRAPHY	

Dalli Salety Dill	the Opposition While it was passed by the Lek Sabha in August 2010, it was cleared by Dairy
and Tamil	the Opposition. While it was passed by the Lok Sabha in August 2019, it was cleared by Rajya
Nadu's objection	Sabha on Friday.
	• The Opposition sought that it be sent to the Parliamentary Standing Committee for
	further scrutiny. However, a motion to this effect was defeated in the House.
	What is the Dam Safety Bill?
	• The Bill proposes to help all states and Union Territories adopt uniform dam safety
	procedures.
	• It aims to "provide for surveillance, inspection, operation and maintenance of the
	specified dam for prevention of dam failure-related disasters, and to provide for
	institutional mechanism to ensure their safe functioning and for matters connected
	therewith or incidental thereto."
	• A National Committee on Dam Safety with a three-year tenure, comprising
	 Chairman of the Central Water Commission
	• Maximum of 10 representatives of the central government in the ranks of joint
	secretary
	 Maximum of seven representatives of the state governments
	 Three experts
	• A state dam safety organisation will be formed as well, which will be responsible for
	the dam safety.
	• This organisation is empowered to investigate and gather data for proper
	review and study of the various features of the design, construction, repair and
	enlargement of dams, reservoirs and appurtenant structures.
	 The state dam safety organisation must also report events such as dam failures
	to the National Dam Safety Authority and also maintain records of major dam
	incidents of each specified dam.

• The National Dam Safety Authority, to be headquartered in Delhi, will be forme
under the Act.
• It will be headed by an officer not below the rank of Additional Secretary to
the Government of India to deal with problems relating to dam engineerin
and dam safety management.
What is the Context of Dam Safety Bill?
 Most of the dams in India are constructed and maintained by the states, while som
of the bigger dams are managed by autonomous bodies such as Damodar Valle
Corporation or Bhakra Beas Management Board of Bhakra-Nangal Project.
• The Centre has presented the Dam Safety Bill, 2018 against the backdrop of over 5,20
large dams in India and about 450 dams under construction right now.
• Due to lack of legal and institutional architecture for dam safety in India, dam safety
an issue of concern. Unsafe dams are a hazard and dam break may cause disaster
leading to huge loss of life and property.
However, during deliberations by the Centre in 2016 to collect feedback from state
on the Bill, then Tamil Nadu chief minister J Jayalalithaa had raised questions on the
bill.
What are the objections by Tamil Nadu?
 Tamil Nadu has argued that the Bill was detrimental to federal principles and powe
of the state governments
 Tamil Nadu alleges that it contains clauses which violate the rights of the stat
especially with respect to the dams constructed by it in neighbouring states, and w
cause problems in maintenance and operation.
 The main concern of the state is about retaining its power in controlling the dam
autonomy, and ownership of the assets.
 Tamil Nadu CM has said the move was nothing but authoritarianism and usurped the
rights of the state governments without regard to the democratic-parliamentary etho
or the Constitution of India.
Conclusion
In a country where most of the dams are built, operated, maintained and owned by stat
governments, the impact of the Act remains to be seen when long-pending disputes arise.
Connecting the dots
Hydropower Vs Solar Power
Hydropower Projects in the Himalayas

SCIENCE AND TECHNOLOGY

Hypersonic	In News: China tested a nuclear-capable hypersonic missile in August 2021 that circled the
Weapons Arms	globe before speeding towards its target, demonstrating an advanced space capability that
Race	caught U.S. intelligence by surprise.
	• However, China has denied that it was nuclear capable.
	What are hypersonic weapons?
	• They are manoeuvrable weapons that can fly at speeds in excess of Mach 5, five times
	the speed of sound.
	• Ballistic missiles, though much faster, follow a fixed trajectory and travel outside the
	atmosphere to re-enter only near impact.
	• On the contrary, hypersonic weapons travel within the atmosphere and can
	manoeuvre midway.
	• The above capabilities combined with their high speeds makes their detection and
	interception extremely difficult.
	• This means that radars and air defences cannot detect them till they are very close and
	little time to react.

 There are two classes of hypersonic weapons: O Hypersonic glide vehicles (HGV): These are launched from a rocket before
gliding to a target
 Hypersonic cruise missiles (HCM): These are powered by high-speed, air- breathing engines, or scramjets, after acquiring their target.
• Hypersonic missiles are a new class of threat because they are capable both of manoeuvring and of flying faster than 5,000 kms per hour, which would enable such missiles to penetrate most missile defences and to further compress the timelines for
response by a nation under attack.
 What is the status of Chinese and Russian programmes and where does the U.S. stand? In early October 2021, Russia announced that it had successfully test launched a Tsirkon
hypersonic cruise missile from Barents Sea which hit a target 350 kms away.
• Talking of the test in November, Russian President Vladimir Putin declared that the
tests were almost complete and the Russian Navy would start receiving them in 2022.
• While the U.S. has active hypersonic development programmes but it was lagging
behind China and Russia because most U.S. hypersonic weapons, in contrast to those
 in Russia and China, are not being designed for use with a nuclear warhead. As a result, U.S. hypersonic weapons will likely require greater accuracy and will be
more technically challenging to develop than nuclear-armed Chinese and Russian
 systems. The U.S. is now looking to accelerate its own programmes, though it is unlikely to field
an operational system before 2023.
• The Pentagon's budget request for hypersonic research for financial year 2022 is \$3.8
billion, up from the \$3.2 billion it requested a year earlier. The Missile Defence Agency
additionally requested \$247.9 million for hypersonic defence.
What is the status of development by other countries?
• Number of other countries - including Australia, India, France, Germany, and Japan—
are also developing hypersonic weapons technology.
• India operates approximately 12 hypersonic wind tunnels and is capable of testing speeds of up to Mach 13.
 Reportedly, India is also developing an indigenous, dual-capable hypersonic cruise missile as part of its Hypersonic Technology Demonstrator Vehicle (HSTDV) program and successfully tested a Mach 6 scramjet in June 2019 and September 2020.
 In a scramjet engine, air goes inside the engine at supersonic speed and comes
 out at hypersonic speeds. DRDO had said after the test in 2020, many critical technologies such as
 DRDO had said after the test in 2020, many critical technologies such as aerodynamic configuration for hypersonic manoeuvres, use of scramjet propulsion for ignition and sustained combustion at hypersonic flow, thermo- structural characterisation of high temperature materials, separation mechanism at hypersonic velocities have been validated.
Is Hypersonic a game changer in arms race?
• Debunking some of the claims surrounding hypersonic weapons, Physicists David
Wright and Cameron Tracy argued that hypersonic weapons "may have advantages in
certain scenarios, but by no means do they constitute a revolution."
• According to these Physicists, many of the claims about hypersonic weapons are
exaggerated or simply false.
 And yet the widespread perception that hypersonic weapons are a game-changer has increased tensions among the U.S., Russia and China, driving a new arms race and
escalating the chances of conflict.
Conclusion
Given the rising tensions between the U.S., China and Russia as also the worsening geopolitical
situation worldwide, the focus for hypersonic weapons is only set to accelerate more countries
to invest significant resources in their design and development.

	Connecting the dots
	 Integrated Guided Missile program of India
	Scramjet Engine
	Cryogenic Engine by ISRO
Semiconductors	Context: The Union Cabinet recently approved a comprehensive program for the developmen
and Industry	of sustainable semiconductor and display ecosystem in the country.
4.0	 With an outlay of Rs.76,000 crore (10 billion US dollars), the scheme has incentives for every part of supply chain including electronic components, sub-assemblies, and finished goods. In total, the Government of India has committed support of Rs. 2,30,000 crore (USD 30 billion) to position India as global hub for electronics manufacturing with semiconductors as the foundational building block.
	Significance of the Sector
	 Semiconductor chips are integral parts of the power train, chassis, safety systems advanced driver assistance systems, and other parts of automobiles. They are used more in passenger vehicles compared to commercial vehicles or two wheelers
	 The move to electric vehicles has led to increased demand of chips. For example, a Fore Focus typically uses roughly 300 chips, whereas one of Ford's new electric vehicles can have up to 3,000 chips
	 With supply of semiconductor chips slowing down, the production in automobile sector is also adversely impacted.
	Programme for Development of Semiconductors and Display Manufacturing Ecosystem
	 The program will usher in a new era in electronics manufacturing by providing a globall competitive incentive package to companies in semiconductors and displa manufacturing as well as design.
	 Pave the way for India's technological leadership in these areas of strategic importanc and economic self-reliance.
	 Semiconductors and displays are the foundation of modern electronics driving the new phase of digital transformation under Industry 4.0.
	 Semiconductors and display manufacturing is very complex and technology-intensiv sector involving huge capital investments, high risk, long gestation and paybac periods, and rapid changes in technology, which require significant and sustaine investments.
	 Give an impetus to semiconductor and display manufacturing by facilitating capita support and technological collaborations.
	Semi-Conductor Shortage
	There was a global shortage of semiconductor chips that had started making its effect felt i the small and medium-sized enterprises (SME) sector in India.
	 Rise in Covid-19 cases in supplying countries, especially those in Asia, led to disruptio of production (shutdown of factories) thereby causing the current shortage. An atrocious winter storm in Texas shutdown semiconductor factories, and a fire at plant in Japan caused similar delays.
	 plant in Japan caused similar delays. Also, relatively low margins of Substrate manufacturing have led to it underinvestment and added to the pain of a global chip shortage
	 Substrates connect chips to the circuit boards that hold them in persona computers and other devices. Made up of thin copper wire sandwiched in resin, substrates help transmit use
	 instructions to a computer's chips and relay the answers. They are necessary because the ultrathin wiring that comes out of chips can
	 tolerate a direct soldered connection to a circuit board Substrate Manufacturing is therefore seen as a backwater of the global chi
	supply chain.

	 Supplies of substrates is very tight and small disruption in this underinvester
	sector is causing big worries to chip manufacturers
	• The chief executives of Intel and IBM have both said recently that the chip shortag
	could last two years.
	Consequences of chip shortage on automobile sector:
	 Due to longer lead time — the time between when the order is placed and the shipmer
	is delivered — the automobile sector has been forced to cut down on its production.
	 The slowing down of production by big automotive players has led to reduction in ne orders being placed to MSME vendors (who supply parts)
	 The MSMEs who are vendors and sub-vendors of the automobile industry are no working just 8 hours instead of the 12 hours they normally do. This has not only affected their earning but is also making them to migrate to other sectors.
	• While the local MSME industrial sector was slowly coming back to normal after the
	second wave of Covid-19, the recovery has been hampered by the high price of ra material and low orders.
	Conclusion
	Coming at a time when the entire world is facing a shortage of semiconductors, analysts satisfies the move could go a long way in establishing the country as a global hub for electronics good besides creating jobs and attracting investments from top firms around the world.
	Can you answer the following question? 1. How will the approved program help India boost its semiconductor capabilities
	Discuss.
	 Enumerate the practical challenges despite the fiscal support, and the technologic collaborations required to propel India towards becoming a semiconductor hub.
lames Webb	Context : The James Webb Space Telescope (JWST), hurled into space by the Ariane 5 rock
Space	from European Space Agency's Spaceport in French Guiana, South America, on December 2
Telescope	is en route to its destination.
	 Costing \$9.7 billion, this joint project of the National Aeronautics and Space Administration (NASA), ESA (European Space Agency) and the Canadian Space Agency is billed as the next-generation telescope.
	 It is slated to unveil unseen distant parts of the universe and help fathom the mysterio of the cosmos.
	 After it arrives at its destination, the 18 telescope mirror segments will have to laligned flawlessly. This will be followed by weeks of testing and calibration. The fir image from the telescope is at least six months away.
	 Why are telescopes in space? The thermal turbulence of the Earth's atmosphere hinders telescopic observation
	the universe.
	 Stars twinkle, light from the faint stellar objects are absorbed by the thick low atmosphere, and part of the spectrum, such as infrared rays from space, hardly reaction
	 the ground. By placing the telescopes on a high mountain top, we avoid as much atmosphere
	possible. Yet the atmospheric turbulence hinders the super-sharp images of objects space.
	 Telescopes in space altogether avoid the atmospheric disturbance and provide us wi a clear, sharp and more profound vision of the farthest reaches of the universe.
	• While the most giant ground-based telescopes revealed galaxies over 5 billion ligh years away, the Hubble space telescope has identified the farthest known gala located at whooping 13.4 billion years in the past.
	Why is JWST an infrared telescope?
	 The telescope mounted on the JWST is an infrared telescope.
	• The invisible magical rays that change channels in our TV remote are infrared.

•	They are like the visible light and radio waves, part of the electromagnetic spectrum, but of different wavelengths.
•	Why take an infrared telescope rather than a telescope that can see the visible spectrum? The answer to this resides in the Big Bang.
•	
•	However, traversing the vast stretches of the expanding space, they turn into infrared rays before reaching the Earth. An infrared telescope is apt to observe the ancient, early universe, which is the primary goal of the JWST.
Will	IWST see better than Hubble?
•	Suppose we keep two tubs, one smaller radius and the other larger radius, in the open. During rain, the larger tub will collect a lot more rainwater than the smaller one during a given time.
•	Likewise, the JWST telescope's 6.5 metres in diameter will collect more photons than Hubble's 2.4 metres mirror.
•	JWST will have about seven times as much light-gathering capability as Hubble. Therefore, the JWST would observe fainter stellar objects that Hubble cannot detect. Farther a thing is, fainter it is.
•	
•	
How	far can JWST peer into the past?
	Let us imagine the time from the Big Bang to now as a year-long calendar. In this cosmic calendar, the Big Bang occurred precisely at midnight on January 1. In this timeline, right now is December 31 at midnight.
•	
	A telescope can detect an object and show how it looks.
•	The spectroscope, a key instrument mounted on the telescope, can analyse the light rays and tell us what is there. From the spectral image, we can understand the
•	elemental composition, the temperature of the stellar object and much more. Unlike the Hubble, JWST carries the spectrascope, which is expected to unravel the
	elemental composition of early stars and galaxies.

INTERNATIONAL R	ELATIONS
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Context: After a gap of five months, Iran, Russia, China and the European countries resumed
negotiations in Vienna to revive the 2015 nuclear agreement, known as the Joint
Comprehensive Plan of Action (JCPOA), that had sought to restrict Iran's nuclear programme.
• As Iran has refused to hold direct talks with the U.S., European officials will shuttle between the Iranian and American delegations, exchanging talking points and seeking common ground.
What were the terms of the nuclear agreement?
• The 2015 agreement sought to cut Iran off a possible path to a nuclear bomb in return
for the lifting of economic sanctions.

• Iran maintains that its nuclear programme is peaceful, a claim disputed by many
international powers.
• At the time of the agreement, Iran had two nuclear enrichment plants — Natanz and
Fordow — that were enriching uranium at a higher purity than what's required for a
civilian programme, and had almost 20,000 centrifuges.
• Typically, low-enriched uranium, with less than 5% concentration of the fissile isotopes U-235, is used in nuclear power plants. While uranium with 20% and more purity is used
in research reactors, the fuel with 90% purity is used in bombs. Centrifuges are used to
enrich uranium.
 Reduce Purity & Stockpile: According to the 2015 deal, Iran agreed to cut its stockpile
of enriched uranium by 98% to 300 kg and keep them at a low purity level of 3.67%.
• Open to Inspection: Restrictions were introduced on the number of centrifuges it could
keep and Iran agreed to open all its facilities to the inspection of the International
Atomic Energy Agency (IAEA).
These measures meant that even if Iran reneged on the promises and decided to make
a bomb, it would take at least one year (the breakout period) to manufacture enough
highly enriched uranium and centrifuges to do so.
• In return for Iran signing the agreement, the US administration under Obama lifted
sanctions on Iran. What triggered the current crisis?
• US withdrawal from deal: In May 2018, U.S. President Donald Trump, Barack Obama's
successor, unilaterally pulled the U.S. out of the nuclear deal despite the UN certification
that Iran was complying with all the terms of the agreement.
• Criticism of Inadequate Measures: Critics of the deal in USA as well as in Saudi Arabia
and Israel argued that the agreement was inadequate to address Iran's growing
influence in the region.
Scope for Rise of Iran: Critics of agreement argued that the lifting of the sanctions would
leave Iran economically more powerful and raise its geopolitical profile, which would
pose fresh challenges to America's allies in West Asia.
 US need for new Items in Negotiation: The Trump administration also wanted to negotiate Iran's ballistic missile programme as part of a new agreement.
 Breakdown of deal & return of Status quo: After pulling out of the JCPOA, the U.S.
reimposed sanctions on Iran and then invited Iran for talks. Iran, on the other side, not
just refused to talk with the Trump administration, but also resumed its nuclear
programme.
Where do talks stand now?
• Joe Biden, during the campaign, had promised to revive the nuclear deal. After his
election, he appointed a special envoy for Iran.
 Indirect talks with Iran through Europeans started immediately. But no agreement was
reached after six rounds in Vienna.
• A change of Government in Iran made matters more complicated. Now, the Iranian delegation, appointed by the new Government of President Ebrahim Raisi, has come
forward for talks, which has raised hopes for a breakthrough. But there still are several
thorny issues.
• Iran has substantially stepped up its nuclear activities since 2019. It has installed
more than 1,000 more advanced centrifuges at its plants, which can enrich
uranium more quickly.
\circ Iran has also started enriching uranium to 20% purity or more, which is a
technical step away from the weapons grade level.
 In February, Iran scuttled the IAEA's oversight of its nuclear sights, but agreed to keep recording devices in place that would allow the agency to continue to
monitor the plants.

	• In recent months, Iran removed the IAEA camera from a factory in Karaj, outside
	Tehran, that makes equipment for centrifuges.
	 According to some reports, the advances Iran made in its nuclear programme has reduced the current breakout time (to make nuclear bomb) to as little as a month, from a year when the deal was alive.
	What future prospects does the negotiations hold?
	 The Biden administration has said that it was ready to take necessary steps to revive the JCPOA, including removing sanctions, but it wants Iran to return to the agreement first — which means
	 Iran should stop enriching uranium Ship out the highly enriched fuel as well as the centrifuges
	 Open the nuclear sites for international inspection.
	• Iran also says it's ready to return to the deal but it wants the U.S. to remove all the sanctions first and give assurances to Iran that a future American leader would not go back on the promises as Mr. Trump did.
	 As a result, the talks have reached a stalemate.
	 In Vienna, the challenge is to find some common ground so that at least the process of reviving the deal can begin. Time is running out for all parties with Iran moving fast with its nuclear programme.
	Connecting the dots
	US Withdrawal from Paris Accord & rejoining it
	 US withdrawal from Afghanistan
	• The Other QUAD (USA-India-Israel- UAE)
	QUAD (India-Australia-Japan-USA)
	AUKUS
The Golden	March 26 marks 50 years since the start of Bangladesh's liberation war, a bloody nine-month
jubilee of	campaign that culminated in the nation's independence on December 16, 1971. It was a violent
Bangladesh	birth, with some of its roots in the 1947 partition of India – when Pakistan was created as a
Liberation War	separate nation.
"Operation	Background
Searchlight – The Untold Story"	• As the British Empire left the subcontinent, an estimated 200,000 to 1.5 million people were killed in sectarian violence associated with the partition and 10 million to 15 million were forcibly displaced.
,	 Newly independent Pakistan comprised two separate geographical areas separated by
	over a thousand miles of Indian terrain. While both regions included significant Muslim
	populations, West Pakistan was made up largely of Punjabi, Pashtuns, Sindhis, Baloch
	and other smaller ethnic groups. In contrast, the population of East Pakistan, which
	became modern-day Bangladesh, was predominantly ethnically Bengali, as the territory
	was formerly part of the Indian region of Bengal.
	• Each of these factors – particularly the differences in language and political and
	economic inequities – laid the groundwork for Bangladesh's independence struggle.
	Challenges faced by East Pakistan
	Jinnah's proclamation: Just eight months into Pakistan's existence, Jinnah had arrived in Dhaka and addressed two rallies.
	 He declared Urdu the state language of West and East Pakistan. He forgot that the
	• He declared of du the state language of west and East Pakistan. He forgot that the people of East Pakistan did not speak Urdu — they spoke Bangla. The seeds of the
	Bangla Language Movement — as well as the Bangladesh Liberation War — could be
	traced to Jinnah's proclamation.
	• The Urdu-only policy aimed to create a single identity out of two culturally distinct
	regions united by a common religion – Islam. More broadly, it aimed to consolidate the
	national identity of the recently independent Pakistan.

•	In East Pakistan, the declaration was followed by the banning of Bengali books, songs and poetry by Bengali Nobel laureate Rabindranath Tagore.
•	Bangla language as the medium of education and primary mode of instruction was also banned.
•	All currency and official documents, including postal stamps and railway tickets, were printed in Urdu.
A majo •	br reason for this was also significant economic disparities between the two regions. West Pakistan controlled the country's industry and commerce while East Pakistan was predominantly the supplier for raw materials, setting up a situation of unequal exchange. West Pakistan deprived and coerced East Pakistan in more areas than one.
•	Jute — and other crops — cultivated in East Pakistan had their prices determined in West Pakistan; a mere half of the profits trickled back to East Pakistan.
•	Apples, grapes or woollen garments produced in West Pakistan were sold at 10 times the price in East Pakistan.
•	Discrimination was such that the slightest of dissent branded one an enemy of Pakistan or of Islam.
•	Persecution, arrests, incarcerations were the order of the day.
•	In 1959-60 the per cap <mark>ita income in</mark> West Pakistan was 32% higher than in East Pakistan. By 1969-70, it was <mark>81% higher in West Pak</mark> istan.
•	Investment policies including in educational infrastructure consistently favoured West Pakistan.
•	East Pakistanis had little access to the Central government, which was located in the West Pakistani city of Islamabad. They were severely underrepresented in politics. West Pakistani political leadership did not see Bengalis as "real" Muslims. Both in political circles and socially, Bengali cultural practices were considered of a lower social status
•	status. The efforts to "Islamise" East Pakistanis through Urdu and "purify" Bengali culture from "Hindu influences" resulted in massive nonviolent demonstrations and strikes.
The se •	Bhasha Andolon: On February 21, 1952, students and other activists launched a language movement called the "Bhasha Andolon," which demanded Bangla be recognized as the state language for East Pakistan. Thousands of school and college students protested, defying Section 144 of the Criminal Procedural Code, which
	prohibited assembly of five or more people and holding of public meetings. The crackdown that followed claimed several lives. From 1950 to 1969 it also galvanised a growing movement for autonomy across East Pakistan.
•	1969 uprising: A mass uprising in 1969 was brutally put down by police and led to the imposition of martial law.
•	Cyclone Bhola: In 1970, a devastating cyclone called "Bhola" in East Pakistan claimed 300,000 to 500,000 lives. The indifferent response of the West Pakistan government further inflamed tensions.
•	Sheikh Mujibur Rahman won national election: A big turning point came the same year when the sole majority political party in East Pakistan, led by Bengali politician Sheikh Mujibur Rahman, won a landslide victory in national elections. The Pakistani leadership was reluctant to accept the results because it did not want an East Pakistani political party heading the federal government. This resulted in the start of a civil disobedience movement in East Pakistan.
•	Launch of Operation Searchlight: As the demand for Bengali autonomy grew, the Pakistani government launched Operation Searchlight, a military operation to crush the emerging movement. According to journalist Robert Payne, it killed at least 7,000 Bengali civilians – both Hindus and Muslims – in a single night.

	• On March 26, Bangladesh was declared independent and the liberation war began.
	The Birth of Bangladesh
	At midnight on March 25, Pakistan unleashed genocide in Bangladesh. Refugees streamed into India. On December 3, India officially entered the war on the side of Bangladesh.
	 As Pakistan's atrocities increased, then PM Indira Gandhi decided to take action and ordered the Indian Army to launch an offensive against Pakistan followed by a full scale war against its neighbor.
	 Indian Army captured around 15000 km of Pak territory with the war lasting around 13 days and ending with the fall of Dhaka and the public surrender of Pak military. On December 16, 1971, the Pakistani military surrendered to the Indian Army, marking it as Bangladesh's Victory Day. As the genocide began on the night of March 25-26 is commemorated as the day of liberation.
	Can you answer the following questions?
	 The creation of Bangladesh in 1971 changed India's geopolitics forever. Elucidate. Issues related to water resources between India and Bangadesh.
	 If Indo-Bangla relations are to move to "newer heights", then unresolved issues have to be dealt with soon. Discuss.
India-Russia military alliance	Context : India-Russia relations have withstood the test of time and the ever-shifting nature o national interests. Relations between the two countries have deepened with time irrespective of the challenges of realpolitik.
	 This exceptional resilience is built on the firm foundation of strategic national interes
	and the synergy of geopolitics.
	 In the post-Cold War era, India has emerged as an economic powerhouse and a key stakeholder in today's global debate be it climate change, international trade, or the menace of terrorism. Russia with its global status and presence presents a win-win situation for deepe
	cooperation. This relation between both countries has evolved with time, deepening the integration and widening the breadth of the relation.
	Recent Meeting of India-Russia
	 At the 20th meeting of the India-Russia Inter-Governmental Commission on Military & Military Technical Cooperation held recently, the two sides concluded fou agreements, contracts and a protocol.
	 While three documents were signed by the officials of the two sides, the protocol wa signed by the two Defence Ministers.
	• This includes an agreement for manufacture of over 6 lakh AK-203 assault rifle through Joint venture in Amethi, UP, India a nd the renewal of the agreement on militar cooperation till 2031.
	What is the status of the defence trade between the two countries?
	 India's heavy Military dependence: Some of the largest deliveries by Russia to India since 2000, include supply and licensed production of T-90S tanks, aircraft carrier IN Vikramaditya, Krivak class stealth frigates, licence production of Su-30MKI fighte aircraft, Smerch multiple rocket launchers and Mi-17V-5 helicopters among others.
	 Moving beyond buyer-seller relations: Russia continues to be among India's bigges defence suppliers and the two sides are now looking to move from licence manufacture to joint research and co-development of defence equipment.
	 Big ticket military deals: Russia has started deliveries of the S-400 Triumf long-range aid defence systems to India. The first division will be delivered by the end of 2021. With the \$5.43 billion S-400 as well as other big ticket deals, the defence trade between India and Russia since 2018 has crossed \$15 billion. Russia's sales with India is about 25% of the total arms exports.
	• Indigenisation plans in future deals: 21 Mig-29s and 12 Su-30MKI fighters, Igla-S short range air defence systems and the long-delayed deal for manufacture of 200 K-226

	utility helicopters in India are some of deals in negotiations where issues surrounding
	the indigenisation plan are yet to be resolved.
	What are the other avenues of cooperation other than defence sales?
	 Logistics Exchange Agreement: On a broader military cooperation, a bilateral logistics support agreement, Reciprocal Exchange of Logistics Agreement (RELOS), as well as a Navy to Navy cooperation MoU are at advanced stages of conclusion.
	 Access to Arctic: The RELOS gives India access to Russian facilities in the Arctic region which is seeing increased global activity as new shipping routes open up and in the backdrop, India's own investments in the Russian Far East.
	 Expanding Bilateral Military Exercises: The two sides are now looking at expanding format of bilateral exercises to make them more complex, more sophisticated for exchange of experiences with regard to real time combat situations, instant exercises, the impact of cyber & drone technology on modern warfare. In addition, the two countries are also looking at ideas for expanding India-Russia cooperation in Central Asia and possibility of supplementing bilateral exercises with trilateral and multilateral ones.
	What is the future trajectory of the defence cooperation?
	 Setting joint venture to speed up services: Timely supply of spares and support to the large inventory of Russian hardware in service with Indian military has been a major issue from India. To address this, Russia has made legislative changes allowing its companies to set up joint ventures in India to address it following an Inter-Governmental Agreement signed in 2019. This is in the process of being implemented. Competition forcing timely deliveries: With increased competition from the U.S., France, Israel and others who have bagged major deals in recent years, Russia is also focusing on timely deliveries and lifetime support. Co-production to realign with Atmanirbhar Bharat: In line with India's quest for self sufficiency, the partnership is reorienting presently to joint research and development, co-development and joint production of advanced defence technology and systems. Today Russia & India are conducting joint research work on more than 100 promising topics, laying the huge groundwork for the development of high-tech industry in both countries in the future. Coproduction for Export: In line with above objectives, the two countries have been discussing how they can cooperate in using India as a production base for exporting to third countries Russian-origin equipment and services.
	 Way Forward for Indo-Russian ties Explore Trilateral Framework: India and Russia need to work together in a trilateral manner or using other flexible frameworks, particularly in Southeast Asia and Central Asia. Their growing collaboration can be a force of stability and will bring more diversity to the region while strengthening multilateralism. Leverage Public Diplomacy: Second, the two countries also need to look at peoples' power — youth exchanges as well as deeper links in various fields including sport, culture, spiritual and religious studies. Tap into Cultural Congruence: Finally, Buddhism can be an area where both countries can expand their interaction, where peace and sustainability can act as a balm in this turbulent
	world.
World	In News: According to the World Inequality Report 2022, India stands out as a "poor and
Inequality	very unequal country, with an affluent elite", where the top 10% holds 57% of the total
Report: The	national income, including 22% held by the top 1%, while the bottom 50% holds just 13%
Rich-Poor Gap	in 2021.
in India	Key findings for India
	• Poor Middle Class Wealth: It says India's middle class is relatively poor with an
	average wealth of Rs 7,23,930, or 29.5% of the total national income, compared with

	the top 10% who own 65% (Rs 63,54,070) and top 1% who own 33% (Rs 3,24,49,360)
	of total national income.
•	Disparity in Average Income: The average annual national income of the Indian
	adult population is Rs 2,04,200 in 2021. The bottom 50% earned Rs 53,610, while
	the top 10% earned over 20 times more (Rs 11,66,520)
•	Disparity in Average Household Wealth : The average household wealth is Rs 9,83,010, of which the bottom 50% owns Rs 66,280, a mere 6%.
•	Multidimensional Poverty: As per the recent Multi-dimensional Poverty Index
	prepared by Niti Aayog, one in every four people in India was multi-dimensionally poor. Bihar has the highest such proportion (51.91%), followed by Jharkhand
	(42.16%) and Uttar Pradesh (37.79%).
•	Poor Data from government sources: The quality of inequality data released by the
	government has seriously deteriorated, making it particularly difficult to assess recent inequality changes, the report says.
What	is the Pandemic impact?
	Drop in Income : The impact of the pandemic was reflected in a drop in global
	income, which was impacted significantly due to India.
•	Wealth in Private Hands: Also, even as countries have become richer over the last
	40 years, their governments have become significantly poorer, a trend magnified
	due to the pandemic. The share of wealth held by public actors is close to zero or
	negative in rich countries, meaning that the totality of wealth is in private hands.
•	Increased Government Borrowing: The trend of concentration of wealth in private
	sector has been magnified by the Covid crisis, during which governments borrowed
	the equivalent of 10-20 per cent of GDP, essentially from the private sector.
•	Global Inequality in Wealth Distribution: The rise in private wealth has also been
_	unequal within countries and at world levels. Since the mid-1990s, the top 1%
	globally took 38% of all additional wealth accumulated, whereas the bottom 50 per
	cent captured just 2%.
•	The wealth of the richest individuals on earth has grown at 6 to 9% per year since
	1995, whereas average wealth has grown at 3.2% per year. This increase was
	exacerbated during the COVID pandemic.
Globa	I, regional trends
	The poorest half of the global population "barely owns any wealth" at just 2% of
	the total, whereas the richest 10% owns 76%, the report says. The richest 10%
	currently takes 52% of global income, and the poorest earns just 8%.
	The Middle East and North Africa (MENA) are the most unequal regions in the
•	world, whereas Europe has the lowest inequality levels, the report says. In Europe,
	the top 10%'s income share is around 36%, and in MENA, it is 58%; in East Asia, it is
	•
	43%, and in Latin America, 55%. Global wealth was equal to around 510 trillion ourses in 2020, or about 600% of
•	Global wealth was equal to around 510 trillion euros in 2020, or about 600% of
	national income. The ratio of total wealth to total income rose from around 450% in
_	the early 1990s to about 600% today.
	In high-income countries, in 1970, private wealth-national income ratios ranged
	between 200-400%. By 2008, when the global financial crisis began, these ratios
	averaged 550%.
	Large emerging economies such as China and India experienced faster increases
	than wealthy countries after they transitioned away from communism (in China and Bussia) or from a highly regulated economic system (in India). In India
	Russia) or from a highly regulated economic system (in India). In India, private wealth increased from 290% in 1980 to 560% in 2020.

	• Wealth inequalities are also tightly connected to ecological inequalities. The top 10% of emitters is responsible for close to 50% of all emissions, while the bottom 50% contributes 12%.
	 Global inequalities seem to be about as great today as they were at the peak of Western imperialism in the early 20th century, the report said. If the rich were taxed?
	 The report has suggested levying a modest progressive wealth tax on multimillionaires.
	 In 2021, there were 62.2 million people owning more than \$1 million (measured at market exchange rates). Their average wealth was \$2.8 million, a total of \$174 trillion.
	 More than 1.8 million individuals (top 0.04%) own over \$10 million, 76,500 (0.001%) own over \$100 million, and 2,750 (0.00005%) own more than a billion dollars. The billionaires own more than \$13 trillion, or 3.5% of global wealth.
	A global effective wealth tax rate of 1.2% for wealth over \$1 million could generate revenues of 2.1% of global income.
Europe's Global	Context : Recently, European Commission launched the Global Gateway initiative What is Global Gateway initiative of EU?
Gateway	 It is a new European Strategy to boost smart, clean and secure links in digital, energy and transport and strengthen health, education and research systems across the world. It is essentially an umbrella strategy to synchronize already existing EU and member states global infrastructure investment programs.
	 Global Gateway aims to mobilize 300 billion euros (around \$337 billion) over a five-year period to invest in digital and transport infrastructure, energy generation and transmission, and health projects.
	 In addition to smaller EU grants, Global Gateway taps into national and EU resources from financial institutions and development banks, in the hope that institutional spending will unlock significant private capital, too.
	Merits of Global Gateway
	 Challenger to China's BRI: Observers and officials were quick to frame the GG as a European challenge to China's BRI — itself launched in 2013 to fund infrastructure development projects mostly in developing and middle-income countries in Asia and around the globe.
	 Strengthen EU ties with world: EU investments have made tangible differences on the ground in much of the developing world as well as in middle-income countries. This strengthens ties with Asia, Africa, and, importantly, the Western Balkan region, and it raises environmental, democracy, and human rights standards.
	 The European model is about investing in both hard and soft infrastructure, in sustainable investments in digital, climate and energy, transport, health, education and research, as well as in an enabling environment guaranteeing a level playing field. Value Driven Model: The EU will offer not only solid financial conditions for partners,
	bringing grants, favourable loans, and budgetary guarantees to improve debt sustainability – but also promote the highest environmental, social and strategic management standards
	• Complements US initiative: This is Europe's contribution to narrowing the global investment gap. Also, Global Gateway and the US initiative Build Back Better World will mutually reinforce each other.
	Criticisms/challenges of Global Gateway
	• Repacking of Existing Projects : Global Gateway is mostly repackaging existing programs (InvestEU, our research programme, Horizon Europe and the Connecting Europe Facility) and also that the investment sum remains a fraction of what China is mobilizing.

	 Geopolitical Influence: Overseas infrastructure investments are always part geopolitical, seeking to increase the investing country's own influence while trying to minimize space for others. The EU is no different and naturally seeks to advance i interests and competitiveness. China factor is exaggerated: Not China but Japan is the largest infrastructure investor silently and seamlessly implementing affordable good quality projects, especially Southeast Asia. Value Driven Agenda of EU: While Europe meets high standards and enjoys gre credibility and reputation, the assumption that China does not is flawed. Many middle
	 and low-income countries are demanding China's investment that doesn't come with value-driven agendas unlike that of Western investment which is invariably attached to Democracy & Human rights. China adapting to criticisms: BRI is now approaching a decade of experience, and Chin though relatively new to global investment projects, has learned important lessons fro the first phase of BRI (2013-2017). Beijing is also increasingly showing greater empath for the local economy and sensitivities, and the BRI is moving into new areas sustainable growth and health where there is great demand.
	 Scope for complementary multi-source investment: Asian Development Bar estimates Asia's needs to be \$26 trillion through 2030. In other words, even if Chir were to double the BRI's investment volume, would still be room for 10 Glob Gateways. Challenges in mobilising Private Capital: While the BRI mobilizes state-owner commercial and policy banks, it is unclear whether the EU will indeed be able to tap in the state of the state of
	 private capital. Infrastructure projects are costly and yield uncertain returns. Conclusion Not everything needs to be seen through the lens of binary competition, and ne everything Beijing does is ipso facto bad simply because Beijing does it. Global Gateway is an excellent and meaningful strategy. But instead of trying to outcompete China and lamenting low standards, the EU could make a difference to setting examples, gradually raising the bar for all. Europe should find ways to coordinate and synergize various national and suprimational projects and share best practices and information. It can also prioritize area
	 less penetrated by the BRI, especially India and Eastern Europe. Connecting the dots <u>G-7 Build Back Better World</u> China's Belt & Road Initiative Asia-Africa Growth Corridor
Russia-Ukraine Tension	 In News: Russia has been building up its military forces close to the Ukrainian border. As perceptores, Russia has amassed more than 92,000 troops around 300 km from the Russian border with eastern Ukraine. This territory is a conflict zone where Ukraine has been battling Russia-backed separatists. While Ukraine and the West have accused Russia of preparing for an invasion, Russi has, in turn, accused the West of 'anti-Russia' agenda.
	 Why the Russian military build-up? While the exact reasons remain open to interpretation, most strategic experts believe that an actual invasion is unlikely. Rather, the move seems aimed at signaling serious intent to impose costs on Ukraine certain 'red lines' regarding Moscow's security concerns are crossed. The background to Russia's recent escalation vis-à-vis Ukraine is its discomfort with the steady eastward expansion of the U.Sled North Atlantic Organisation (NATO).

	 With even former constituents of the erstwhile Soviet Union such as Latvia, Lithuania, and Estonia becoming NATO members, Russia is determined to protect its domain of influence in the case of larger neighbours such as Belarus and Ukraine. While Belarus has a pro-Russia regime, Ukraine has been courting – and courted by NATO. Russia is alarmed by the gradual expansion of military aid pouring into Ukraine from NATO member countries, which is allegedly being used in its war against Russia-backed separatists in the Donbas region (Eastern Ukraine). In this context, the troop build-up could be interpreted as a stern warning against any plans to escalate NATO activities or presence in Ukraine. How has Ukraine responded to Russia's mobilisation? Ukrainian President Volodymyr Zelensky claimed that a coup plot has been hatched to depose him. Without saying so in as many words, he has hinted that Russia was behind the plot. Russia has denied any role in the alleged coup attempt. Ever since Russia seized Crimea from Ukraine in March 2014 and war broke out in eastern Ukraine a month after, relations between the two countries have been fraught. Russia annexed Crimea to protect its naval base in the Crimean capital of Sevastopol, which was necessary to retain its dominance of the strategically critical Black Sea, which is otherwise surrounded by NATO states (Turkey, Bulgaria, and Romania, with Georgia and Ukraine being aspiring members whose induction has been stalled only by Russian
	opposition).
	Does the Minsk Protocol have any bearing on the current scenario?
	• The Minsk Protocol was an agreement signed by representatives of Ukraine, Russia, OSCE (Organization for Security and Co-operation), and the then heads of the two separatist groups to end the war in the Donbas region.
	 It enjoins Ukraine to devolve more powers to the local governments – likely controlled by the separatist groups in the Donbas region. Ukraine, which has made no move to implement the agreement, believes that doing so
	would give Russia too much say in its internal matters.
	• Russia, on the other hand, believes the Minsk Protocol to be the basis for lasting peace.
	What are the larger geo-political ramifications?
	 With the end of the Cold War, the dissolution of the Warsaw Pact, and the collapse of the Soviet Union, NATO's original objective – to thwart an invasion of Western Europe from the east – had been achieved.
	• But NATO, rather than disbanding, reinvented itself as a vehicle of American strategic
	dominance. It began to expand, acquiring new members at a fast clip.
	 Recently, with the U.S. viewing China rather than Russia as its primary security threat, American strategic focus has been shifting to the Asia-Pacific theatre.
	 Some analysts believe that Russian President Vladimir Putin might have decided that it
	was a good time to test NATO's (and the U.S.'s) strategic will to get involved in case
	things escalate in Ukraine.
	What next?
	• In the event of Russia actually invading Ukraine, it is doubtful if NATO would intervene militarily to protect Ukraine, which is not currently a member. At the same time, it would not want to be seen as ineffective.
	• At the very least, Russia, which already faces an array of economic sanctions sparked by
	the Crimea invasion, might end up with more painful ones, including possibly against
	the Nord Steam-2 pipeline, which delivers Russian gas directly to Germany.
RCEP & Victory for the dairy	Context : The Comprehensive Economic Cooperation Agreement (CECA) between India and Australia is expected to face rough weather with the Government committing to open the dairy
sector	sector which is being opposed by the farmers' organisations.

 The Bharatiya Kisan Union said it was against Regional Comprehensive Economic Partnership negotiations because of dairy commitments and will oppose the India-Australia CECA because of the same factors. India's withdrawal from the Regional Comprehensive Economic Partnership (RCEP) is a major victory for the farmer's organisations, trade unions, associations of small and medium industrial areducers and siril against groups which had arganised widespread
medium industrial producers and civil society groups, which had organised widespread agitations against the free trade agreement. The Indian government has bowed to their demands and refused to join RCEP.
Why joining the RCEP would have proven suicidal for India's dairy sector?
1. Fear of Tariffs
 The key fear of the dairy sector was that tariff clauses for agriculture in the RCEP are much more severe compared to the existing World Trade Organization (WTO) agreement.
• While the WTO allows a country to fix tariffs up to a certain maximum, or bound tariff, for a given commodity line, the RCEP binds countries to reduce that level to zero within the next 15 years.
• Currently, India's average bound tariff for dairy products is about 63.8% while its average applied tariff is 34.8%.
2. A self-sufficient sector
 India's dairy sector provides livelihood to about 70 million households.
• A key feature of India's dairy sector is the predominance of small producers. In 2017, if
the average he<mark>rd size in a dairy farm was</mark> 191 in the U.S., 355 in Oceania, 148 in the U.K. and 160 in Denmark, it was just 2 in India .
 Yet, due to Operation Flood after the 1960s, India's contribution to world milk production rose from 5% in 1970 to 20% in 2018. Today, India is largely self-sufficient in milk production. It does not import or export milk in any significant quantity. If we consider global milk trade, developed countries account for 79% of the total world export of milk. Major players are the U.S., the EU, Australia and New Zealand. A country like New Zealand exports 93% of its milk production.
• On the other hand, developing countries account for 80% of the world's total milk
imports. Though India is self-sufficient in milk production, China imports about 30% of its milk requirement.
 Thus, some of the major players in the global milk trade are in the RCEP region. About 51% of the global trade of milk, 45% of the global trade of skimmed milk powder (SMP), 38% of the global trade of butter oil, 35% of the global trade of cheese and 31% of the global trade of butter takes place in the RCEP region. This is why Australia and New Zealand, deprived of the lucrative markets in the U.S.
after the demise of the Trans Pacific Partnership (TPP), have had a deep interest in the RCEP agreement.
3. Growth of MNCs
• Over the last 25 years, Indian policy has consciously encouraged the growth of private milk companies. Milk cooperatives, which played a major role during Operation Flood, are no more seen as engines of growth.
• Policy has also favoured the entry of multinational dairy corporations into the Indian dairy sector, through joint ventures, mergers and acquisitions.
 Multinational milk firms have opened shop in India in the hope that the Indian dairy sector would soon be opened up.
 For instance, the Swiss firm Nestlé was the largest private purchaser of milk in India in 2019. The French milk firm Lactalis entered India in 2014 and has taken over Tirumala Milk Products in Hyderabad, Anik Industries in Indore, and Prabhat Dairy.

 Another French firm, Danone, has invested ₹182 crore in the yoghurt brand Epigamia. New Zealand's Fonterra Dairy has a 50:50 joint venture with Kishore Biyani's Future Consumer products.
• In other words, multinational dairy firms had been building a strong presence in India even prior to the RCEP talks. At present, these firms are forced to buy milk from Indian
 farmers. The reason is that the applied tariff for dairy products in India is about 35%. The bound tariff would have fallen to zero if the RCEP had come into effect. It would have then been far more profitable for firms to import milk from New Zealand or Australia rather than buy it from Indian farmers. The sale price of milk received by Indian farmers would have fallen sharply.
 The export price of SMP from New Zealand is about ₹150 per kg. The domestic price of SMP in India is about ₹300 per kg.
 An average dairy farmer in India receives ₹30 per litre of milk. According to estimations made by Amul, if free imports of SMP from New Zealand are permitted, the average price for milk received by an Indian dairy farmer would fall to ₹19 per L.
4. False arguments
Two arguments were raised in favour of India signing the RCEP.
• First, it was argued that India would soon become a milk-deficient country and be forced to import milk. Hence, it would be better if India enters the RCEP today rather than later.
 Forecasts from Niti Aayog show that this argument is wrong. In 2033, India's milk production would rise to 330 MMT while its milk demand would be 292 MMT. Thus, India is likely to be a milk-surplus country by 2033.
 Second, it was argued that the quantity of milk imports from New Zealand to India are unlikely to exceed 5% of their total exports. As a result, its impact on Indian prices would be insignificant. This too is a false argument.
 As data put together by Amul show, 5% of New Zealand's exports in this sector is enough to flood India's domestic market. It is enough to account for 30% of the Indian market for milk powders, 40% of the Indian market for cheese, and 21% of the Indian market for butter oil. These numbers are significant, and enough to ensure that Indian dairy prices plummet.
 If there are 70 million households dependent on dairy in India, the corresponding number is just 10,000 in New Zealand and 6,300 in Australia. Reasoned analysis shows the socio-economic costs of India becoming a party to the RCEP agreement.
 How come milk price from New Zealand and Australia is so low? The unit cost of milk production is relatively low in countries like New Zealand because of extensive grazing lands (which reduce feed costs), mechanised operations and the advantages of economies of large-scale production, and the high productivity of milch animals (about 30 L/day). In addition, New Zealand government policy has consciously helped its major company,
 Fonterra, to become the dairy giant that it is. Fonterra, which controls 90% of the New Zealand milk market and one-third of world trade in milk, is feared even by large American and European dairy firms.
 A key demand of American dairy firms during the TPP negotiations was that New Zealand should break up and end the monopoly of Fonterra.
Conclusion India's farmer's organisations did well to keep the government on a short leash this time. On its side, the government would do well to be guarded against the temptations of joining such free trade agreements in the future. It should also begin work on correcting the imbalances of existing free trade agreements.

MCQs

Q.1) Consider the following statements

- 1. After notifying the rules of Citizenship Amendment Act, 2019, nearly 1 lakh people have renounced citizenship & returned to their home countries.
- 2. According to a Global Wealth Migration Review report, in 2019, India came second only to China when it came to high net worth individuals (HNIs) leaving the country.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.2) Consider the following statements

- 1. India is the largest consumer of vegetable oil in the world.
- 2. India's Palm oil imports are almost 60% of its total vegetable oil imports.
- Government has launched National Mission on Edible Oils - Oil Palm (NMEO-OP) with the aim to promote the cultivation of oil palm and also expand the cultivation of other traditional oilseed crops.

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1,2 and 3

Q.3) Natanz and Fordow often seen in the news are associated with which of the following Country?

- a) Pakistan
- b) Afghanistan
- c) North Korea
- d) Iran

Q.4) Consider the following statements regarding G20

- 1. Troika refers to the top grouping within the G20 that consists of three largest economies of G20.
- 2. India will assume the G20 presidency on December 1, 2022 from Indonesia, and will

convene the G20 Leaders' Summit for the first time in India in 2023.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.5) Consider the following statements regarding Global Fuel Economy Initiative (GFEI)

- 1. It is a collaboration between the International Energy Agency and NITI Aayog
- 2. The objective of the GFEI is to help stabilize greenhouse gas emissions from the global light duty vehicle fleet through a 50% improvement of vehicle fuel efficiency worldwide by 2050.

Which of the above statements is/are correct?

- a) 1 and 2 only
- b) 2 only
- c) 1 and 3 only
- d) 1,2 and 3

Q.6) Pragyata guidelines recently seen in the news are associated with which of the following areas?

- a) Federal Cooperation on Water
- b) Health
- c) Digital Education
- d) Police reforms

Q.7) Consider the following statements about Khadi & Village Industries Commission (KVIC)

- It is a statutory body formed in April 1957 by the Government of India, under the Act of Parliament, 'Khadi and Village Industries Commission Act of 1956'.
- 2. It is an apex organisation under the Ministry of Micro, Small and Medium Enterprises.

Which of the above statement(s) is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.8) Consider the following statements about Food Fortification

- It has minimal effects on taste and cooking properties while at the same time adding multiple nutrients to cure multiple deficiencies.
- 2. Rice is the fifth item to get the government's fortification push after salt, edible oil, milk and wheat.

Which of the above statement(s) is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.9) Chendamangalam Handloom is associated with which of the following state of India?

- a) Tamil Nadu
- b) Kerala
- c) Andhra Pradesh
- d) Karnataka

Q.10) Which of the following are the largest brackish water bodies of India?

- a) Chilika Lake
- b) Kutch Salt Marsh
- c) Pulicat Lake
- d) Kerala Backwaters

Q.11) Which of the following is not true regarding AFSPA?

- a) Section (3) of AFSPA specifies that If the governor of a state issues an official notification in The Gazette of India then the Central government has the authority to deploy armed forces for assisting the civilian authorities.
- b) Section (4) of the Act gives Special powers to army officers in disturbed areas to shoot any individual who violates law or is suspected to violate law.
- c) Security forces can arrest anybody even without a warrant, and carry out searches without consent.
- Prosecution of the officer on duty for alleged violation of human rights requires the prior permission of the Governor of that particular state.

Q.12) Consider the following statements

- The Compensatory Afforestation Fund Management and Planning Authority is an independent authority established under Compensatory Afforestation Fund (CAF) Act 2016.
- 2. The rules governing the management of the fund specify that the funds can be used for payment of salary, travelling allowances as well.

Select the correct answer from the following codes:

- a) Only 1
- b) Only 2
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.13) The Konyaks are one of the major ethnic groups of which of the following states of India?

- a) Chhattisgarh
- b) Assam
- c) Odisha
- d) Nagaland

Q.14) Which of the following is not a member country of BIMSTEC?

- a) South Africa
- b) Bangladesh
- c) Bhutan
- d) India

Q.15) Which of the following fort was known to early Europeans as the 'Gibraltar of the East'?

- a) Raigad fort
- b) Amber fort
- c) Jaisalmer fort
- d) Red fort

Q.16) Ken river flows through which of the following states of India?

- a) Madhya pradesh, Chhattisgarh and Uttar pradesh
- b) Madhya pradesh and Uttar pradesh
- c) Madhya pradesh, Gujarat and Rajasthan
- d) Madhya pradesh and Maharashtra

Q.17) Which of the following is *not* true regarding the Law Commission of India?

- a) It is an executive body established by an order of the Government of India.
- b) It is usually headed by a former Supreme Court judge or a former Chief Justice of a High Court.
- c) Its Tenure is 3 Years

d) Recommendations are binding on the government

Q.18) Consider the following statements regarding the Chief of Defence Staff (CDS):

- 1. CDS is the permanent Chairman of the Chiefs of Staff Committee which has the three service chiefs as members
- 2. He is also the head of the Department of Military Affairs (DMA).

Which of the above is or are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.19) The calm area at the centre of the cyclone is referred to as?

- a) Epicentre
- b) Focus
- c) Landfall
- d) Eye

Q.20) Which of the following benefits are enjoyed by the Institute of National Importance??

- a) Functional autonomy
- b) Increased funding.
- c) Minimal interference from the political executive.
- d) All of the above

Q.21) Consider the following statements regarding the PM Street Vendor's AtmaNirbhar Nidhi (PM SVANidhi) Scheme:

- It is a micro-credit facility that provides street vendors a collateral-free loan of Rs 10,000 with low rates of interest for a period of one year.
- 2. The scheme is a part of the AtmaNirbhar Bharat package.

Which of the above is or are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.22) Bitcoin is an example of which of the following?

- a) Plastic money
- b) Fiat currency
- c) Non-fiat cryptocurrency
- d) fiat cryptocurrency

Q.23) Which is a nodal ministry for Beti Bachao Beti Padhao (BBBP) scheme? answer choices

- a) Ministry of home affairs
- b) Ministry of Women and Child Development
- c) Ministry of Health and Family Welfare
- d) Niti Aayog

Q.24) Consider the following statements regarding the Stubble burning:

- Stubble burning is the act of setting fire to crop residue to remove them from the field to sow the next crop
- 2) It is a traditional practice in Southern Inida to clean off the rice chaff to prepare the fields for winter sowing
- Which of the above is or are correct?
 - a) 1 only
 - b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 nor 2

Q.25) Section 124A of IPC deals with which of the following?

- a) Sedition
- b) Child marriage
- c) Triple talaq
- d) Money laundering

Q.26) Which of the following is not a part of G7?

- a) USA
- b) UK
- c) Russia
- d) Japan

Q.27) Consider the following statements regarding the Difference between UCBs and Commercial Banks

- 1) In a commercial bank, there is a clear distinction between its shareholders and its borrowers whereas in a UCB, borrowers can even double up as shareholders.
- 2) Banking operations of the UCBs are regulated by the RBI, but their management and resolution in the case of distress is regulated by the Registrar of Co-operative Societies either under the State or Central government.

Which of the above is or are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.28) Finn's weaver bird was recently uplisted to which of the following categories by IUCN?

- a) Vulnerable
- b) Extinct
- c) Endangered
- d) Critically endangered

Q.29) Which of the following is not a Central Asian nation?

- a) Turkmenistan
- b) Afghanistan
- c) Uzabekistaan
- d) Kyrgyzstan

Q.30) Consider the following statements regarding the Lokpal and Lokayuktas Act, 2013:

- The Lokpal Act envisages establishment of the anti-graft body Lokpal at the Centre and Lokayuktas in states to look into cases of corruption against certain categories of public servants.
- 2) The Lokpal selection committee is headed by the Prime Minister and consists of the Lok Sabha Speaker, leader of the opposition in the lower house, the Chief Justice of India or a judge of the apex court nominated by him, and an eminent jurist who could be nominated by the President or any other member.

Which of the above is or are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.31) Which of the following is the 1st festival in Asia to achieve recognition as UNESCO ICH of Humanity?

- a) Taiwan Lantern Festival
- b) Phi Ta Khon
- c) Ice And Snow Festival
- d) Durga Puja

Q.32) Consider the following statements:

- 1. Its northern boundary runs along the international border with Bhutan.
- 2. It represents the highly endemic Indo-Malayan region.
- 3. The forest of the reserve is classified as the Moist Tropical forest.
- 4. Rajabhatkhawa Vulture Breeding Center for the breeding and conservation of endangered Indian vultures was established as the second such center in India.

Which of the following tiger reserve is being described above?

- a) Namdapha Tiger reserve
- b) Manas Tiger reserve
- c) Buxa Tiger reserve
- d) Valmiki Tiger reserve

Q.33) Sixth schedule deals with which of the following?

- a) List of states and union territories and their territories
- b) Provisions as to the allocation of seats in the Council of States.
- c) Provisions as to the Administration and Control of Scheduled Areas and Scheduled Tribes.
- d) Provisions as to the Administration of Tribal Areas in the States of Assam, Meghalaya, Tripura and Mizoram.

Q.34) Vanniyars are one of the largest and most consolidated backward communities of which of the following states of India?

- a) Tamil Nadu
- b) Andhra Pradesh
- 🤤 c) Kerala
- d) Karnataka

Q.35) Consider the following statements:

- 1. Typhoon and hurricane are two of the regionally specific names for strong tropical cyclones
- 2. In the North Atlantic, central North Pacific, and eastern North Pacific, tropical cyclones are called typhoons.

Which of the following is or are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.36) Consider the following statements.

- 1. When a virus does not change it is called a mutation.
- 2. A virus with one or more new mutations is known as a "variant" of the original virus.

Which of the following is or are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.37) Consider the following statements regarding Competition Commission of India (CCI):

- 1. It is a Constitutional body
- 2. It is responsible for enforcing The Competition Act, 2002 throughout India.
- 3. It is composed of A Chairperson and 6 Members appointed by the President of India.

Which of the above is or are correct?

- a) 1 and 2 only
- b) 2 only
- c) 1 and 3 only
- d) 1, 2 and 3

Q.38) Covovax vaccine was recently granted emergency approval by WHO. It is manufactured by which of the following country?

- a) USA
- b) UK
- c) India
- d) China

Q.39) Consider the following statements on Kalanamak rice

- 1. This variety has been in cultivation since the Buddhist period (600 BC).
- 2. It is quite popular in Himalayan Tarai of Nepal and eastern Uttar Pradesh of India, and is also known as the scented black pearl of Uttar Pradesh.

Which of the above statement(s) is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.40) Operation Vijay is associated with which of the following?

- a) Liberation of Goa, Daman and Diu
- b) Operation against Naxalites
- c) To help fleeing Hindus and Sikhs from Afghanistan
- d) Flushing out militants from Kashmir

Q.41) Baby Friendly Hospital Initiative (BFHI) is a worldwide programme of which of the following?

- a) WHO
- b) UNICEF
- c) ASEAN
- d) Both (a) and (b)

Q.42) Visakhapatnam, Mormugao, Imphal and Surat indigenous stealth guided missile destroyers belong to which of the following class?

- a) Project 15B
- b) Project 75 submarine
- c) Project 18
- d) Project 15A

Q.43) Fugitive economic offender (FEO) is defined as an individual who:

- 1. who has committed offences involving an amount of 10 crore rupees or more
- 2. has run away from India to avoid criminal prosecution.

Which of the above is or are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.44) Which of the following is the administrative Ministry of the Election Commission?

- a) Ministry of Home Affairs
- b) Ministry of Law
- c) Ministry of Social Justice
 - d) None of the above

Q.45) 'Mission Kakatiya' in Telangana is associated with which of the following class?

- a) Abolition of Child labour
- b) Mitigating Pollution
- c) Employment
- d) Rainwater harvesting

Q.46) Consider the following statements regarding 'Standing' committees:

- 1. It is a temporary and regular committee which is constituted according to the provisions of an Act of Parliament.
- 2. Financial committees and departmentallyrelated standing committees (DRSCs) are types of standing committees.
- Which of the above is or are correct?
 - a) 1 only
 - b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 nor 2

Q.47) Chillai kalan is associated with Which of the following?

- a) Rice sowing season
- b) Harshest winter spell of Kashmir
- c) Mourning month of Shia community
- d) None of the above

Q.48) Which of the following are possible uses of drones in Agriculture

- a) It can be used in many areas of the agriculture sector such as monitoring crop stress, plant growth, predicting yields, and delivering props.
- b) Drones can be used for assessing the health of any vegetation or crop, field areas inflicted by weeds.
- c) Drones can be used to shoot pods which increases consistency and efficiency of crop management.
- d) All of the above

Q.49) Consider the following statements regarding Albino Indian Flapshell Turtle

- 1. It is a freshwater species of turtle found in South Asia.
- 2. Its IUCN status is critically endangered. Which of the above is or are correct?
 - a) 1 only
 - b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 nor 2

Q.50) The Central Reserve Police Force (CRPF) comesunder Which of the following ministry?

- a) Ministry of Defence
- b) Ministry of Law and Justice
- c) Ministry of Home affairs
- d) None of the above

Q.51) The authority of adjournment sine die lies with which of the following?

- a) President
- b) Leader of Opposition
- c) The presiding officer of the House
- d) Prime Minister

Q.52) Consider the following statements regarding Olive Ridleys:

- 1. It is the smallest sea turtle.
- 2. The olive ridley is mostly carnivorous.
- Which of the above is or are correct?
 - a) 1 only
 - b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 nor 2

Q.53) Biligiri Rangaswamy Temple (BRT) Tiger Reserve is located in Which of the following state?

- a) Tamil Nadu
- b) Andhra Pradesh
- c) Telangana
- d) Karnataka

Q.54) ASIGMA, recently seen in news, is associated with Which of the following?

- a) Indian Army's messaging application
- b) Newly discovered dwarf planet
- c) Indigenous drones for agricultural productivity
- d) None of the above

Q.55) Consider the following statements regarding Essential Commodities (EC) Act, 1955:

- 1. It was established to prevent hoarding of the essential commodities and to ensure their timely delivery so that normal life does not get affected.
- 2. This includes foodstuff only.

Which of the above is or are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.56) Which of the following is *not* true about the Tribal Cooperative Marketing Development Federation of India (TRIFED)

- a) It is a statutory body
- b) It is administered by the Ministry of Commerce.
- c) It works for the social and economic development of the tribal people of the country

d) It has been registered as a National Level Cooperative body by the Government of the country

Q.57) Swachh Bharat Mission-Urban 2.0 comes under which of the following Ministry?

- a) Ministry of Drinking water and sanitation
- b) Ministry of Home Affairs
- c) Ministry of urban affairs
- d) Ministry of Social justice

Q.58) The World's longest Highway tunnel – Atal Tunnel is located in?

- a) Himachal Pradesh
- b) Ladakh
- c) Shimla
- d) Both (a) and (b)

Q.59) Which of the following is *incorrect* about Antidumping Duty?

- a) An anti-dumping duty is a protectionist tariff that a domestic government imposes on foreign imports that it believes are dumped.
- b) The imposition of anti-dumping duty is impermissible under the World Trade Organization regime.
- c) It is aimed at ensuring fair trading practices
- d) These tariffs can also lead to higher prices for domestic consumers.

Q.60) Mission SAGAR is associated with which of the following?

- a) withdrawal of AFSPA
- b) Indian assistance to Indian Ocean nations
- c) Killing off insurgents in J&K
- d) All women naval fleet

Consider the following statements regarding Counter Terrorism Committee of UNSC:

- 1. India will chair the Counter-Terrorism Committee of United Nations Security Council (UNSC) in January 2022 after 10 years.
- The Counter-Terrorism Committee was established by Security Council resolution 1373 adopted unanimously on 28 September 2001 in the wake of the 9/11 terror attacks in the US.

Which of the above is or are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2

d) Neither 1 nor 2

Q.62) Which of the following is *incorrect* about flex-fuel engines?

- a) It is an internal combustion engine that can run on more than one type of fuel and also a mixture.
- b) Typically, a blend of petrol and ethanol or methanol is used
- c) The engine is capable of automatically adjusting for any ratio.
- d) Flex-fuel engines are still in the experimental stage and are not available in any country.

Q.63) Foreign Contribution Regulation Act (FCRA) comes under which of the following Ministry?

- a) Ministry of External affairs
- b) Ministry of Home affairs
- c) Ministry of Finance
- d) Ministry of Commerce

Q.64) Consider the following statements regarding Vaccines recently approved in India:

- 1. Corbevax, to be made by Hyderabad-based Biological E, is a nanoparticle-based vaccine.
- 2. Covovax, to be manufactured by the Serum
- Institute of India, Pune, is a protein subunit vaccine.
- Which of the above is or are correct?
 - a) 1 only
 - b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 nor 2

Q.65) Which of the following is the function of SEBI?

- a) Drafting regulations
- b) Passing rulings and orders
- c) Conducting investigation and enforcement action
- d) All of the above

Q.66) e-shram portal comes under which of the following Ministry?

- a) Ministry of Labour & Employment
- b) Ministry of Home affairs
- c) Ministry of Finance
- d) Ministry of Commerce

Q.67) Consider the following statements regarding Indian SARS-CoV-2 Genomic Consortia (INSACOG):

- 1. It is coordinated by Department of Biotechnology (DBT) along with MoH&FW, ICMR, and CSIR
- 2. The aim is To monitor the genomic variations in the SARS-CoV-2 on a regular basis through a multi-laboratory network.

Which of the above is or are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.68) New Development Bank is Component of financial architecture of Which of the following?

- a) BRICS
- b) ASEAN
- c) BIMSTEC
- d) None of the above

Q.69) Atal Rankings of Institutions on Innovation Achievements (ARIIA) is an initiative of which of the following?

- a) NITI Aayog
- b) Ministry of Education
- c) All India Council for Technical Education (AICTE)
- d) University Grants Commission (UGC)

Q.70) Consider the following statements regarding Sahitya Akademi award:

- 1. Award is presented to the most outstanding books of literary merit published in any of the twenty-four major Indian languages recognized by the Akademi.
- 2. Sahitya Akademi award is the highest literary honour by the Government of India.

Which of the above is or are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Q.71) What is the IUCN status of Indian Pangolin?

- a) Endangered
- b) Critically endangered
- c) Threatened
- d) Extinct

	ANSWER KEY	
1. B	26. C	51. C
2. D	27. C	52. C
3. D	28. C	53. D
4. B	29. B	54. A
5. B	30. C	55. A
6. C	31. D	56. B
7. C	32. C	57. C
8. C	33. D	58. D
9. B	34. A	59. B
10. A	35. A	60. B
11. D	36. B	61. C
12. A	37. B	62. D
13. D	38. C	63. B
14. A	39. C	64. D
15. A	40. A	65. D
16. B	41. D	66. A
17. D	42. A	67. C
18. C	43. B	68. A
19. D	44. B	69. B
20. D	45. D	70. A
21. C	46. C	71. A
22. C	47. B	
23. B	48. D	
24. A	49. A	
25. A	50. C	
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