



**IASBABA'S
DAILY CURRENT
AFFAIRS QUIZ
COMPILATION
UPSC 2022**

APRIL-2023

9169191888
www.iasbaba.com



Q.1) Consider the following statements about 'JUICE (Jupiter Icy Moon Explorer) Mission'

1. The probe aims to explore the possibilities of life in space and the origins of Jupiter
2. It is a National Aeronautics and Space Administration (NASA) mission to explore Jupiter and its icy moons
3. It will become the first probe to orbit a planetary moon other than that of Earth
4. It will be powered completely by solar energy once it crosses the orbit of Earth

Choose the correct answer using the code given below

- a) 1, 2 and 3 only
- b) 1 and 3 only
- c) 2 and 4 only
- d) 2, 3 and 4 only

Q.1) Solution (b)**Statement Analysis:**

Statement 1	Statement 2	Statement 3	Statement 4
Correct	Incorrect	Correct	Incorrect
The probe aims to explore the possibilities of life in space and the origins of Jupiter. Jupiter, the aim of the JUICE mission, is the largest planet in the solar system and holds the key to understanding how the solar system was formed.	It is a European Space Agency (ESA) mission to explore Jupiter and three of its icy moons: Europa, Callisto and Ganymede.	During the mission, the spacecraft will orbit Ganymede, the solar system's largest moon, and in doing so will become the first probe to orbit a planetary moon other than Earth's.	It has been fuelled with mono-methyl hydrazine (MMH) fuel and mixed oxides of nitrogen (MON) oxidizer, which ignites when the two come in contact. Juice will use this propellant to make critical course manoeuvres on its journey.

Context - The European Space Agency (ESA) is in the final phase of launching the much-awaited JUICE (Jupiter Icy Moon Explorer) mission to explore Jupiter

Q.2) 'Raccoon Stealer' seen in news recently is related to

- a) Phishing software
- b) Spoofing
- c) DNS tunneling
- d) Malware

Q.2) Solution (d)

Raccoon Stealer is a kind of malware that steals various data from an infected computer. It is a classic example of information-stealing malware, which cybercriminals typically use to gain possession of sensitive data saved in users' browsers and cryptocurrency wallets. Like most info-stealers, Raccoon Stealer is purchasable.

Context - Eight Government entities were hit by info-stealing malware

Q.3) Consider the following statements about 'National Mission for Cultural Mapping'

1. It was launched by the Ministry of Culture to develop a comprehensive database of art forms across the country
2. Districts are the basic unit of cultural mapping under this programme

Select the correct statement(s)

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

Q.3) Solution (a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
National Mission for Cultural Mapping was launched in 2017 by the Union Ministry of Culture. It aims to develop a comprehensive database of art forms, artists and other resources across the country.	In this cultural asset mapping, villages have been broadly divided into seven-eight categories based on whether they are important ecologically, developmentally or scholastically, if they produce a famous textile or product, and if they are connected to some historical or mythological events such as the Independence struggle or epics like the Mahabharata. The Indira Gandhi National Centre for Arts (IGNCA) has undertaken the cultural asset mapping of these villages through field surveys.

Context - The detailed dossiers of the villages covered under the Mera Gaon Meri Dharohar programme of the National Mission for Cultural Mapping will be made available from May on a web portal

Q.4) With reference to 'Genome India project', consider the following statements

1. It is a Pan India initiative focused on Whole Genome Sequencing of total population of India

2. The programme will help in the development of personalised medicine, anticipating diseases and modulating treatment on the basis of genome sequences

Select the **INCORRECT** statement(s)

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

Q.4) Solution (a)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
Genome India project aims at cataloguing the Genetic Variation in Indians is a Pan India initiative focused on Whole Genome Sequencing of representative populations across India. The goal is to start with and execute whole genome sequencing and subsequent data analysis of 10,000 individuals representing the country's diverse population.	It would also open new vistas for advancing personalized medicine regimen in the country paving the way for predicting health and disease outcomes and modulating treatment protocols on the basis of the genome sequences. Besides, it would help in identifying the population groups which are more susceptible to various risk factors for certain diseases.

Context - The secretary of the Department of Biotechnology said that under the Genome India project, close to 7,000 genomes have been sequenced and 3,000 of these are already available for public access.

Q.5) With reference to 'Miyawaki Method', consider the following statements

1. It involves planting a combination of two to four types of indigenous and exotic trees within every square meter
2. Miyawaki method helps to create a forest in just 2 to 3 years, while through conventional methods it takes anywhere between 20 to 30 years
3. The trees become self-sustainable and grow to their full length within a few years using this method

Choose the correct answer using the code given below

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

Q.5) Solution (c)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
It involves planting two to four types of indigenous trees within every square meter. This method includes planting trees (only native species) as close as possible in the same area which not only saves space, but the planted saplings also support each other in growth and block sunlight reaching the ground, thereby preventing the growth of weed	Miyawaki method helps to create a forest in just 20 to 30 years, while through conventional methods it takes anywhere between 200 to 300 years.	In this method, the trees become self-sustainable and grow to their full length within three years. Miyawaki forests grow 10x faster, are 30 x denser and contain 100x more biodiversity.

Context - To tackle climate change and pollution, the Brihanmumbai Municipal Corporation (BMC) recently started creating a Miyawaki forest at Deonar village in Govandi.

Q.6) Consider the following statements about 'International Big Cat Alliance (IBCA)'

1. The Alliance will work for the conservation of big cats such as Tiger, Lion, Leopard, Snow Leopard, Cheetah, Jaguar and Puma harbouring our planet
2. The Alliance launched by India seeks to bring together countries, conservationists, and experts from around the world

Select the correct statement(s)

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

Q.6) Solution (c)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
The Prime Minister Shri Narendra Modi launched the International Big Cat Alliance (IBCA) for conservation of seven big cats namely Tiger, Lion,	The alliance seeks to bring together countries, conservationists, and experts from around the world to collaborate on conservation efforts for these

Leopard, Snow Leopard, Cheetah, Jaguar and Puma harbouring our planet. The alliance aims to reach out to 97 range countries covering the natural habitats of Tiger, Lion, Snow Leopard, Puma, Jaguar, and Cheetah.

seven big cat species. Through IBCA, India hopes to share knowledge, expertise, and best practices in conserving these species with other countries that have significant big cat populations, such as Indonesia, Brazil, and South Africa

Context - To commemorate 50 years of Project Tiger, the Prime Minister of India launched the International Big Cat Alliance (IBCA)

Q.7) With reference to 'Ramakrishna Mission', consider the following statements

1. The mission was founded by Ramakrishna Paramahansa and propagates the Hindu philosophy of Vedanta
2. The mission bases its work on the principles of Karma yoga, the principle of selfless work done with a dedication to God

Select the correct statement(s)

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

Q.7) Solution (b)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
Ramakrishna Mission (RKM) is a Hindu religious and spiritual organisation which forms the core of a worldwide spiritual movement known as the Ramakrishna Movement or the Vedanta Movement. The mission is named after an Indian spiritual Guru Ramakrishna Paramahansa and founded by Ramakrishna's chief disciple Swami Vivekananda on 1 May 1897. The organisation mainly propagates the Hindu philosophy of Vedanta–Advaita Vedanta and four yogic ideals – Jnana, Bhakti, Karma, and Raja yoga	The mission bases its work on the principles of Karma yoga, the principle of selfless work done with a dedication to God. Swami Vivekananda proclaimed "Renunciation and service" as the twofold national ideals of modern India. The mission strives to practice and preach these.

Context - Recently, The Prime Minister of India participated in the 125th Anniversary celebrations of Sri Ramakrishna Math at Vivekananda House in Chennai, Tamil Nadu.

Q.8) Consider the following statements about 'Indian Space Policy 2023'

1. The policy aims to increase India's share in the global space economy to 10% in the future
2. The private sector can take part in end-to-end space activities that include building satellites, rockets and launch vehicles
3. The policy designates NewSpace India Limited (NSIL) to act as the interface between Indian Space Research Organisation and non-governmental entities

Choose the correct answer using the code given below

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) All the above

Q.8) Solution (a)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
The policy aims to increase India's share in the global space economy to 10% in the future. India's share is currently 2%	The policy seeks to institutionalize the private sector participation in the space sector, with ISRO focusing on research and development of advanced space technologies. The private sector can take part in end-to-end space activities that include building satellites, rockets, launch vehicles, data collection, and dissemination.	INSPACe will be the interface between Indian Space Research Organisation and non-governmental entities. NSIL will carry out strategic activities related to the space sector and will work in a demand-driven mode.

Context - The government has approved the Indian Space Policy (ISP) 2023, to boost private sector participation and increase investments in the space sector

Q.9) Consider the following statements about 'IT (Intermediary Guidelines and Digital Media Ethics Code) Amendment Rules 2023'

1. It is obligatory on the part of intermediaries to ensure that no advertisement of a non-permissible online game is hosted on its platform
2. It empowers the Union Government to designate an official fact checker for curbing misinformation and 'fake news'
3. The Rules are aligned with the guidelines provided by the Supreme Court in Shreya Singhal Vs Union of India case

Choose the correct answer using the code given below

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

Q.9) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
It is obligatory on the part of intermediaries to make a reasonable effort to not host/publish/share any online game that can harm the user and ensure that no advertisement of a non-permissible online game is hosted on its platform.	The amendment empowers the Union Government to designate an official fact checker for misinformation and 'fake news', and to regulate the online real money gaming industry.	The amendment violates the procedures, safeguards and conditions laid out in Shreya Singhal v. Union of India or under Section 69A of the IT Act. Government sets itself as judge, jury and executioner

Context - The Ministry of Electronics and Information Technology (MeitY) notified amendments to the Information Technology (Intermediary Guidelines and Digital Media Ethics Code) Rules, 2021.

Q.10) 'Article 371F' of the Indian Constitution provides special status to which state?

- a) Mizoram
- b) Andhra Pradesh
- c) Goa
- d) Sikkim

Q.10) Solution (d)

Article 371F is a special provision in the Constitution of India that was created to provide for the unique status of Sikkim, a state located in the northeastern part of India. Sikkim was an independent kingdom until 1975, when it became the 22nd state of India. Article 371F was included in the Constitution to ensure that Sikkim's distinct identity and cultural heritage were protected and preserved after its merger with India.

Context - Former Sikkim CM claimed that the Sikkimese people feel betrayed as Article 371F, which guarantees special provisions for Sikkim, was "violated".

Q.11) Consider the following statements about 'Raman Spectroscopy'

1. Raman spectroscopy can be used to examine the chemical and structural composition of all metals
2. The principle behind the theory is that a monochromatic radiation when passed through a sample may get reflected, absorbed, or scattered

Select the INCORRECT statement(s)

- e) 1 only
- f) 2 only
- g) Both 1 and 2
- h) Neither 1 nor 2

Q.11) Solution (a)**Statement Analysis:**

Statement 1	Statement 2
Incorrect	Correct
Raman spectroscopy reveals the chemical and structural composition of samples. Generally, all materials produce Raman spectra, with the exception of pure metals. It was discovered by C.V. Raman in 1928 to study the vibrational, rotational, and low-frequency modes of the molecules.	The principle behind Raman spectroscopy is that the monochromatic radiation is passed through the sample such that the radiation may get reflected, absorbed, or scattered. The scattered photons have a different frequency from the incident photon as the vibration and rotational properties vary.

Context - Scientists from the Centre for Nano and Soft Matter Sciences (CeNS), an autonomous institute of the Department of Science & Technology (DST), Govt. of India, have designed an efficient SERS substrate.

Q.12) With reference to 'UN Democracy Fund (UNDEF)', consider the following statements

1. It was created by UN General Assembly as a United Nations General Trust Fund to support democratization efforts around the world
2. The large majority of UNDEF funds go to local civil society organizations, both in the transition and consolidation phases of democratization
3. UNDEF subsists entirely on contributions from Permanent members of UN Security Council

Choose the correct answer using the code given below

- e) 1 and 2 only
- f) 2 only

- g) 1 and 3 only
- h) 3 only

Q.12) Solution (b)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
The United Nations Democracy Fund (UNDEF) was created by UN Secretary-General Kofi A. Annan in 2005 as a United Nations General Trust Fund to support democratization efforts around the world. It was welcomed by the General Assembly in the Outcome Document of the 2005 World Summit and was created by the UN Secretary- General.	UNDEF supports projects that strengthen the voice of civil society, promote human rights, and encourage the participation of all groups in democratic processes. The large majority of UNDEF funds go to local civil society organizations – both in the transition and consolidation phases of democratization	UNDEF subsists entirely on voluntary contributions from Governments; in 2015, it reached almost 170 million dollars in contributions and counts more than 40 countries as donors, including many middle- and low-income States in Africa, Asia and Latin America.

Context - India is the fourth highest donor to UN Democracy Fund, which funds at least 68 projects worldwide linked to the Open Society Foundation.

Q.13) Consider the following statements about 'State Energy Efficiency Index Report 2021-22'

1. The report is based on an updated framework of 50 indicators aligned with international priorities
2. The report was developed by the Bureau of Energy Efficiency (BEE) in association with International Sustainable Energy Foundation

Select the correct statement(s)

- e) 1 only
- f) 2 only
- g) Both 1 and 2
- h) Neither 1 nor 2

Q.13) Solution (d)**Statement Analysis:**

Statement 1	Statement 2
Incorrect	Incorrect
SEEI 2021-22 has an updated framework of 50 indicators aligned with national priorities. Programme-specific indicators have been included this year to track outcomes and impacts of state-level energy efficiency initiatives. In SEEI 2021-22, 5 states - Andhra Pradesh, Karnataka, Kerala, Rajasthan and Telangana - are in the Front Runner category (>60 points) while 4 states - Assam, Haryana, Maharashtra, and Punjab - are in the Achiever category (50-60 points)	State Energy Efficiency Index Report was developed by the Bureau of Energy Efficiency (BEE) in association with Alliance for an Energy-Efficient Economy (AEEE).

Context - The Union Minister of Power and New & Renewable Energy released the report of the State Energy Efficiency Index (SEEI) 2021-22

Q.14) 'Suhelwa Wildlife Sanctuary' seen in news recently is located in

- a) Himachal Pradesh
- b) Madhya Pradesh
- c) Uttar Pradesh
- d) Chhattisgarh

Q.14) Solution (c)

Suhelwa Sanctuary is a wildlife sanctuary located in Balrampur, Gonda and Sravasti districts of the state of Uttar Pradesh in India. It is one of the important places in the Bhabar-Tarai Eco-System area which is rich in biodiversity. The Suhelwa Wild Life Division is situated on the Indo-Nepal International Border.

Context - Suhelwa Wildlife Sanctuary in Uttar Pradesh is a new area where photographic evidence of tigers has been recorded for the first time.

Q.15) Consider the following statements with respect to 'National Party' status

1. The Parliament has laid down the technical criterion for a party to be recognised as a national/state party in the Representation of the People Act, 1951
2. A political party would be considered a national party if it has won at least 2% of the total seats in the Lok Sabha from not less than two states
3. A recognized national party gets broadcast/telecast facilities over Akashvani/Doordarshan during general elections

Choose the correct answer using the code given below

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

- c) 1 and 3 only
- d) 3 only

Q.15) Solution (d)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Incorrect	Incorrect	Correct
The ECI has laid down the technical criterion for a party to be recognised as a national/state party in the Election Symbols (Reservation and Allotment) Order 1968, as amended from time to time. A party may gain or lose national/state party status from time to time	A political party would be considered (if it satisfies any of the below conditions) a national party if: it is 'recognised' in four or more states as a state party; or if its candidates polled at least 6% of total valid votes in any four or more states in the last Lok Sabha or Assembly elections and has at least four MPs in the last Lok Sabha polls; or if it has won at least 2% of the total seats in the Lok Sabha from not less than three states.	If a party is recognised as a State Party, it is entitled for exclusive allotment of its reserved symbol to the candidates in the State in which it is so recognised. If a party is recognised as a National Party, it is entitled for exclusive allotment of its reserved symbol to the candidates throughout India. Further, they get broadcast/telecast facilities over Akashvani/Doordarshan during general elections.

Context - The Election Commission (ECI) recognised the Aam Aadmi Party (AAP) as a national party, while revoking that status of the All-India Trinamool Congress, Nationalist Congress Party (NCP) and the Communist Party of India (CPI)

Q.16) Consider the following statements with respect to 'International Rice Research Institute (IRRI)'

1. It is a research and educational institute established under the Food and Agriculture Organization
2. 'IR8', a high-yielding semi-dwarf rice variety developed by IRRI played a significant role in India's Green Revolution

Select the correct statement(s)

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

Q.16) Solution (b)**Statement Analysis:**

Statement 1	Statement 2
Incorrect	Correct
IRRI is an independent, nonprofit, research and educational institute, founded in 1960 by the Ford and Rockefeller foundations with support from the Philippine government. It is the world's premier research organization dedicated to reducing poverty, hunger, and malnutrition through rice science.	IR8 is a high-yielding semi-dwarf rice variety developed by the International Rice Research Institute (IRRI) in the early 1960s. IR8 dramatically increased the yields of Asian rice from 1 or 2 ton per hectare to 4 or 5 tons per hectare. It played a significant part in the Green Revolution.

Context - A two-member delegation from International Rice Research Institute (IRRI) recently visited Punjab Agricultural University (PAU) to deliberate on emerging research areas for rice cultivation

Q.17) 'Kamchatka Peninsula' seen in news recently is located in

- a) Indonesia
- b) Philippines
- c) Russia
- d) Italy

Q.17) Solution (c)

Kamchatka Peninsula lies in far eastern Russia, between the Sea of Okhotsk on the west and the Pacific Ocean and Bering Sea on the east. It is one of the world's most concentrated areas of geothermal activity, with about 30 active volcanoes. Immediately offshore along the Pacific coast of the peninsula runs the 10,500-metre-deep (34,449 ft) Kuril–Kamchatka Trench.

Context - A volcano erupted recently on Russia's far eastern Kamchatka Peninsula

Q.18) Consider the following statements with respect to 'National Credit Framework'

1. It is a meta-framework to seamlessly integrate the credits earned through vocational and skill education
2. It was introduced by the University Grants Commission to integrate multiple streams of education
3. It divides the educational ecosystem into several levels and assigns credit on the basis of learning hours

Choose the correct answer using the code given below

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) All the above

Q.18) Solution (d)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
It is a set of guidelines that schools, colleges, and universities must adhere to when implementing the credit system (so far, only the NIOS followed the credit system). It is a meta-framework to seamlessly integrate the credits earned through general (school, higher education) and vocational and skill education	The University Grants Commission (UGC) has introduced the National Credit Framework (NCrF) to integrate multiple streams of education such as vocational, academic, and experiential.12 hours ago	It divides the educational ecosystem into 8 levels from Class 5 to PhD level and assigns credit on the basis of learning hours. For example, one credit equals 30 hours of notional learning in a year of two semesters. A student is required to earn a minimum of 20 credits every semester [40 credits (or more) in one year = 1,200 learning hours]

Context - The University Grants Commission (UGC) released the NCrF, which will allow students to earn educational credits at all levels, irrespective of the mode of learning

Q.19) With reference to 'Framework for acceptance of Green Deposits of Regulated Entities', consider the following statements

1. The entities will issue green deposits as cumulative or non-cumulative deposits
2. The green deposits shall be denominated in any currency not blacklisted by FATF
3. It will apply to all scheduled commercial banks including deposit-taking non-banking finance companies
4. Hydropower plants larger than 25 MW, Direct waste incineration, landfill projects are among the uses that are allowed using green deposits

Choose the correct answer using the code given below

- a) 1 and 2 only
- b) 2 and 4 only
- c) 1 and 3 only
- d) 3 and 4 only

Q.19) Solution (c)**Statement Analysis:**

Statement 1	Statement 2	Statement 3	Statement 4
Correct	Incorrect	Correct	Incorrect
The entities will issue green deposits as cumulative or non-cumulative deposits. On maturity, they can be renewed or withdrawn.	The green deposits shall be denominated in Indian rupees only. All conditions applicable to other public deposits will also be applicable to green deposits.	It will apply to all scheduled commercial banks, including small finance banks and deposit-taking non-banking finance companies such as housing finance firms.	Nuclear power generation, direct waste incineration, landfill projects and hydropower plants larger than 25 MW are among the uses that are prohibited using funds raised via green deposits.

Context - The Reserve Bank of India (RBI) recently announced the framework for the acceptance of green deposits of regulated entities (RE).

Q.20) Consider the following statements about 'ULPIN (Unique Land Parcel Identification Number)/Bhu-Aadhaar'

1. It will have the longitude and latitude coordinates of the land parcel and is based on geo-referenced cadastral maps
2. Every plot/parcel of land in urban and rural areas can get the 12-digit alpha-numeric ULPIN (Unique Land Parcel Identification Number)

Select the correct statement(s)

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

Q.20) Solution (a)**Statement Analysis:**

Statement 1	Statement 2
Correct	Incorrect
The Unique Land Parcel Identification Number (ULPIN) or Bhu-Aadhaar will have the longitude	DILRMP integrates the computerisation of land records, strengthening of revenue administration,

and latitude coordinates of the land parcel and is based on detailed surveys and geo-referenced cadastral maps. Department of Land Resources (DoLR) along with the Ministry of Electronics and Information Technology, the Department of Science and Technology and the National Remote Sensing Centre came up with the Unique Land Parcel Identification Number system.

and updating of land records. Once this has been done and the system is cleaned up, every plot/parcel of land (both urban and rural) can get the 14-digit alpha-numeric ULPIN (Unique Land Parcel Identification Number) which is also named as BhU-Aadhaar.

Context - India aims to digitise 100 per cent of its land records and the land registration process and give a unique 14-digit alpha-numeric identity, also called BhU-Aadhaar.

Q.21) Consider the following statements with respect to 'Ad hoc judges'

1. The appointment of ad-hoc judges for High Courts has been provided in the Constitution
2. Chief Justice of a High Court may appoint an Ad Hoc judge if the number of vacancies is more than half of the sanctioned strength
3. Chief Justice of a High Court of any State can request a person to act as a judge of the High Court with the prior consent of the Governor

Choose the correct answer using the code given below

- a) 1 only
- b) 2 and 3 only
- c) 1, 2 and 3
- d) None

Q.21) Solution (a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Incorrect
The appointment of ad-hoc judges has been provided in the Constitution under Article 224A (appointment of retired Judges at sittings of High Courts).	Under Article 224A, the Chief Justice of a High Court for any State can request a person to act as a judge of the High Court. For this, the prior consent of the president is required. The person should have held the office of judge of that court or of any other High Court.	The Chief Justice of a High Court may start the procedure of recommending a name if: <ul style="list-style-type: none"> • The number of vacancies is more than 20% of the sanctioned strength. • Cases in a particular class are pending for over five years.

		<ul style="list-style-type: none"> • More than 10 % of pending cases are over five years old. • Percentage of the rate of disposal is beneath the institution of the cases either in a particular subject matter or in the court.
--	--	---

Context - The Supreme Court collegium has recommended the appointment of a retired district judge as a judge of the Madhya Pradesh HC, citing legitimate expectation and delay in the selection process

Q.22) With reference to 'Magnetoresistance', consider the following statements

1. It is the tendency of a material to change the value of its electrical resistance in an externally-applied magnetic field
2. It can be used in biosensors, automotive sensors, microelectromechanical systems and medical imagers

Select the correct statement(s)

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

Q.22) Solution (c)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
Magnetoresistance is the tendency of a material (often ferromagnetic) to change the value of its electrical resistance in an externally-applied magnetic field. The magnetoresistance observed in the graphene-based device was "almost 100 times higher than that observed in other known semimetals in this magnetic field range."	It is used in hard disk drives and magnetoresistive RAM in computers, biosensors, automotive sensors, microelectromechanical systems, and medical imagers etc.

Context - Researchers in the UK, led by Nobel laureate Andre Geim, have discovered that graphene displays an anomalous giant magnetoresistance (GMR) at room temperature.

Q.23) Consider the following statements about 'Energy Charter Treaty'

1. It is an international agreement that establishes a multilateral framework for cross-border cooperation in renewable energy
2. The treaty covers all aspects of commercial energy activities including trade, transit, investments and energy efficiency
3. The Energy Charter Conference, an inter-governmental organisation was established under this treaty

Choose the correct answer using the code given below

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) All the above

Q.23) Solution (b)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
The Energy Charter Treaty (ECT) is an international agreement that establishes a multilateral framework for cross-border cooperation in the energy industry, principally the fossil fuel industry. It is designed to promote energy security through the operation of more open and competitive energy markets while respecting the principles of sustainable development and sovereignty over energy resources.	The treaty covers all aspects of commercial energy activities including trade, transit, investments and energy efficiency. The treaty contains dispute resolution procedures both for States Parties to the Treaty (vis-à-vis other States) and as between States and the investors of other States, who have made investments in the territory of the former	The Treaty established the Energy Charter Conference, an inter-governmental organisation which meets on a regular basis to discuss issues affecting energy cooperation. There are currently 53 signatories and contracting parties to the ECT, including both the European Union and Euratom.

Context - Denmark energy ministry recently said that the country is working towards exiting the Energy Charter Treaty.

Q.24) Consider the following statements with respect to 'Gond Painting'

1. Gond painting is a famous folk art of the Gond tribal community of central India.
2. Paint made from boiled oil and vegetable dyes is laid down on fabric using either a metal block (printing) or a stylus (painting) in this craft

Select the correct statement(s)

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

Q.24) Solution (a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
Gond painting is a famous folk art of the Gond tribal community of central India. It is done to preserve and communicate the culture of the Gond tribal community. The present-day Gond paintings have evolved from Digna and Bhittichitra.	The Gonds paint Digna, a traditional geometric pattern on the walls and floors of the houses. Bhittichitra is painted on the walls of houses, and these paintings include images of animals, plants, and trees. Women use natural colors to paint the walls and floors of their homes.

Context - Madhya Pradesh's Gond painting gets GI tag

Q.25) 'Bioluminescence' a natural phenomenon occurs due to the presence of

- a) Foraminifera
- b) Diatoms
- c) Copepods
- d) Dinoflagellates

Q.25) Solution (d)

Bioluminescence occurs due to the presence of some marine planktons called dinoflagellates that produce light when the water is disturbed. These planktons emit light on the ocean surface at night. Bioluminescent is widespread among deep sea animals in general. Many marine creatures like sponges, jellyfish, worms, species of fish, anthropods, echinoderms and unicellular alga exhibit bioluminescence to either evade predators, attract prey or during mating. In Visakhapanam, this phenomenon is most likely the result of an algal bloom of the dinoflagellate species of noctiluca and ceratium.

Context - Visakhapatnam beaches are glowing due to a phenomenon called bioluminescence

Q.26) Consider the following statements with respect to 'Ballistic Missile Defense (BMD) interceptors'

1. It was developed by DRDO and it can be launched from land as well as naval based platforms
2. The programme involves Prithvi missile-based Air Defense for low altitudes and Advanced Air Defense system for high-altitude interceptions

Select the correct statement(s)

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

Q.26) Solution (a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
Development of Phase-I of the land-based BMD was completed by DRDO some time ago but it is yet to be fully deployed operationally. In November last year, the DRDO tested a new long-range flexible interceptor missile called AD-1 for Phase-II of the BMD system. India entered an elite club of nations with the capability to fire a Ballistic Missile Defense (BMD) interceptor from a naval platform. Prior to this, DRDO has successfully demonstrated land-based ballistic missile defence system with capability to neutralize ballistic missile threats	The two-tiered BMD program involved Prithvi missile-based Air Defense that can intercept enemy missiles at altitudes of 50 km to 180 km in the first layer. The Pradyumna interceptor has replaced the Prithvi Air Defense BMD already. The second layer under the program is the Advanced Air Defense system for low-altitude interceptions. The Advanced Air Defense system is designed to destroy hostile missiles at 15 km to 40 km altitudes.

Context - The DRDO and Indian Navy successfully conducted a maiden flight trial of sea-based endo-atmospheric interceptor missile off the coast of Odisha

Q.27) With reference to 'International Fund for Agriculture Development (IFAD)', consider the following statements

1. It is an independent non-profit research institute dedicated to eradicating poverty and hunger in developing countries

2. The Enhanced Linkages between Private Sector and Small-Scale Producers (ELPS) initiative was launched by IFAD

Select the correct statement(s)

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

Q.27) Solution (b)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
IFAD is an international financial institution and a specialized agency of the United Nations dedicated to eradicating poverty and hunger in rural areas of developing countries. IFAD seeks to empower rural people to increase their food security, improve the nutrition of their families and increase their incomes through funding of grants and low-interest loans to several projects	Enhanced Linkages between Private Sector and Small-Scale Producers (ELPS) Initiative is an initiative By IFAD in cooperation with the Ministry of Agriculture, Forestry and Fisheries of Japan. It aims to connect small-scale food producers and marginalised farmer groups in developing countries with larger agrifood companies to facilitate investment, capacity building and trade.

Context - IFAD President recently said that IFAD will set up a new framework to facilitate cooperation between small agricultural producers in developing nations and businesses in Japan

Q.28) 'Calcium Carbide' seen in the news recently is used in the food industry as a/an

- a) Preservative
- b) Flavor enhancer
- c) Artificial ripener
- d) Coloring agent

Q.28) Solution (c)

Calcium carbide, also known as 'masala', is commonly used in mining and metal industries as well as in the production of acetylene gas. It is a highly reactive compound and releases acetylene gas which is used to artificially ripen fruits. However, its use can prove in serious health consequences. The use of calcium carbide, one of the harmful artificial fruit ripening agents, has been prohibited as per the provision in sub-regulation of Food Safety and Standards (Prohibition and Restriction on Sales) Regulation, 2011.

Context - The Food Safety and Standards Authority (FSSAI) of India (FSSAI) on Thursday urged food commissioners of all states and Union Territories (UT) to take action against the unauthorised use of artificial fruit ripening agents.

Q.29) With reference to 'Forensic Auditing', consider the following statements

1. It is an analysis and review of the financial records of a company to extract facts which can be used in a court of law
2. Forensic audits could also involve situations that do not include financial fraud
3. National Stock Exchange of India has released a framework to appoint forensic auditors for assignments relating to the auditing of trading members

Choose the correct answer using the code given below

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) All the above

Q.29) Solution (d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
Forensic Auditing is an analysis and review of the financial records of a company or person to extract facts which can be used in a court of law. It is a speciality in the accounting industry, and most major accounting firms have a department of forensic auditing.	Forensic audits could also involve situations that do not include financial fraud, such as disputes related to bankruptcy filings, business closures, and divorces.	The National Stock Exchange of India has come out with a framework to appoint forensic auditors for assignments relating to the auditing of trading members. According to the statement, the exchange shall define the scope of the audit, timelines for completion, and invite quotations from the auditors who are empanelled with SEBI to conduct the forensic audit.

Context - The National Stock Exchange of India recently came out with a framework to appoint forensic auditors for assignments relating to the auditing of trading members.

Q.30) With reference to 'Economic Advisory Council to the Prime Minister', consider the following statements

1. It is a non-constitutional, non-permanent and independent body constituted to give advice on economic and related issues
2. It is headed by a chairperson and consists of five eminent economists as expert members
3. The Council cannot take any suo-moto cognizance and has to take reference from the Prime Minister or anyone else

Choose the correct answer using the code given below

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

Q.30) Solution (a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Incorrect
It is a non-constitutional, non-permanent and independent body constituted to give advice on economic and related issues to the Government of India, specifically to the Prime Minister.	Terms of Reference of the Council involves analyzing any issue, economic or otherwise, referred to it by the Prime Minister and advising him thereon, addressing issues of macroeconomic importance and presenting views thereon to the Prime Minister. These could be either suo-motu or on reference from the Prime Minister or anyone else.	EAC-PM is headed by a Chairperson and consists of eminent economists as members. It is supported in its functions by a team of officials and administrators. There is no fixed definition on the exact number of members and staff of the PMEAC.

Context - The Economic Advisory Council to the Prime Minister (EAC-PM) said that there was no evidence that the government catered to only one community

Q.31) Consider the following statements with respect to 'Bureau of Civil Aviation Security (BCAS)'

1. It lays down standards with respect to the security of civil flights at international and domestic airports in India
2. It is an subordinate office of the Ministry of Civil Aviation

Select the correct statement(s)

- e) 1 only

- f) 2 only
- g) Both 1 and 2
- h) Neither 1 nor 2

Q.31) Solution (a)**Statement Analysis:**

Statement 1	Statement 2
Correct	Incorrect
<p>Functions of BCAS include:</p> <p>Laying down Aviation Security Standards in accordance with Annex 17 to the Chicago Convention of International Civil Aviation Organization (ICAO) for airport operators, airline operators, and their security agencies responsible for implementing AVSEC measures.</p> <p>Monitoring the implementation of security rules and regulations and carrying out survey of security needs.</p> <p>Ensure that the persons implementing security controls are appropriately trained and possess all competencies required to perform their duties.</p>	<p>The Bureau of Civil Aviation Security (BCAS) is an attached office of the Ministry of Civil Aviation (India). It is the regulatory authority for civil aviation security in India. It is headed by an officer of the rank of Director general of Police and is designated as Director General of Bureau of Civil Aviation Security.</p>

Context - The aviation security watchdog, Bureau of Civil Aviation Security (BCAS), has ordered all major airports in the country to upgrade baggage X-ray machines by end of 2023 and mandated the use of the latest technology so that passengers will not have to remove electronic devices such as laptops, mobile phones, and chargers during screening of handbags.

Q.32) With reference to 'Ude Desh Ka Aam Nagrik (UDAN) 5.0', consider the following statements

1. The earlier stage length cap is waived off and there will be no restriction on the distance between the origin and destination of the flight
2. The same route will not be awarded to a single airline more than once, whether in different networks or in the same network under this scheme

Select the correct statement(s)

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

Q.32) Solution (c)**Statement Analysis:**

Statement 1	Statement 2
Correct	Correct
The earlier stage length cap of 600 km is waived off and there is no restriction on the distance between the origin and destination of the flight. Viability gap funding (VGF) to be provided will be capped at 600 km stage length for both Priority and Non-Priority areas which was earlier capped at 500 km	No predetermined routes would be offered. Only Network and Individual Route Proposal proposed by airlines will be considered. The same route will not be awarded to a single airline more than once, whether in different networks or in the same network.

Context - Union Ministry of Civil Aviation has launched the UDAN 5.0

Q.33) Consider the following statements about 'Myelin Sheath'

1. Myelin basic protein (MBP), a major component of myelin sheath is a protective membrane that wraps around the axon of nerve cells
2. It acts as a conductor, allowing for fast and efficient transmission of electrical signals along the nerve cells
3. Langmuir-Blodgett (LB) technique is used to form monolayers of pure myelin basic protein at the air-water and air-solid interfaces

Choose the correct answer using the code given below

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) All the above

Q.33) Solution (c)**Statement Analysis:**

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
Myelin basic protein (MBP), a major protein component of myelin sheath, which is a protective membrane that wraps around the axon of nerve cells and acts as a	Myelin is an insulating layer, or sheath that forms around nerves, including those in the brain and spinal cord. It is made up of protein and fatty substances. This myelin sheath allows	Langmuir-Blodgett (LB) technique is used to form monolayers of pure myelin basic protein at

model protein in studying diseases like multiple sclerosis (MS).

electrical impulses to transmit quickly and efficiently along the nerve cells

the air-water and air-solid interfaces.

Context - a research group from the physical sciences division of the Institute of Advanced Study in Science and Technology, Guwahati has fabricated monolayers of pure myelin basic protein

Q.34) With reference to 'Misinformation Combat Alliance (MCA)', consider the following statements

1. It is a cross-industry alliance bringing companies, institutions, industry associations and government entities together to combat misinformation and fake news
2. Membership in the MCA is only to those organizations registered with Ministry of Information and Broadcasting
3. MCA proposes to act as a self-regulating body in line with Information Technology (Intermediary Guidelines and Digital Media Ethics Code) Rules, 2021

Choose the correct answer using the code given below

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

Q.34) Solution (d)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
The Misinformation Combat Alliance is a cross-industry alliance bringing companies, organizations, institutions, industry associations and government entities together to combat misinformation and fake news and create an enlightened and informed society.	Membership in the MCA is open to any organization that applies.	The Misinformation Combat Alliance has approached the government to act as a self-regulating body to flag fake news online in line with the Information Technology (Intermediary Guidelines and Digital Media Ethics Code) Rules, 2021

Context - The Misinformation Combat Alliance (MCA), a network of 14 digital publishers, provided a proposal last week to the Ministry of Electronics & Information Technology (MeitY) to form a self-regulatory body that would provide fact checking services to social media platforms

Q.35) 'Artsens device' a non-invasive medical tool seen in news recently is used to

- a) Determine the lung capacity

- b) Assess the age of blood vessels
- c) Monitoring oxygen saturation in the body
- d) Detect eye diseases

Q.35) Solution (b)

'ARTSENS' Device is a novel, non-invasive device to assess the health and age of blood vessels and thereby provide early screening for cardiovascular diseases. It has been developed by Healthcare Technology Innovation Centre at IIT Madras. It is intended for regular medical check-ups, even by non-experts, to evaluate and anticipate vascular health.

Context - Researchers at the Indian Institute of Technology Madras (IIT-M) have developed a device to screen for cardiovascular diseases. The device, called Artsens, can be used by non-experts for routine medical examinations.

Q.36) With reference to 'Indiahandmade portal', consider the following statements

1. It is a virtual store developed by Ministry of Textiles that offers clothing, home decor, jewellery and accessories
2. Artisans will be directly connected to the buyers through a common platform and no commission would be taken

Select the correct statement(s)

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

Q.36) Solution (c)**Statement Analysis:**

Statement 1	Statement 2
Correct	Correct
Indiahandmade portal offers a wide range of products, including clothing, home decor, jewellery, accessories, and more. All their products are handmade by skilled artisans, and they pride themselves on offering unique and authentic pieces that showcase India's diverse cultural heritage. To provide products from more than 35 Lakh Handloom weavers & 27 Lakh Handicraft artisans directly to the consumers while eliminating the	Artisans/Weavers will be directly connected to the buyers through a common platform. Sellers enjoy higher profits with 0% commission No intervention of middlemen thereby ensuring improvement in the dwindling situation of Indian craftsmen

middlemen, the Ministry of Textiles has developed an E-Commerce portal for handicrafts and handloom sector

Context – The portal was launched

Q.37) Consider the following statements with respect to 'Water Bodies census'

1. The Ministry of Jal Shakti released the report of India's first water bodies census
2. Rivers, streams, springs, waterfalls and canals which are free flowing have also been included as water bodies in the report
3. Maharashtra has emerged as the best performing state in terms of water conservation

Choose the correct answer using the code given below

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) All the above

Q.37) Solution (c)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
The Ministry of Jal Shakti has released the report of India's first water bodies census, a comprehensive data base of ponds, tanks, lakes, and reservoirs in the country. The census was conducted in 2018-19, and enumerated more than 2.4 million water bodies across all states and Union Territories.	First Census Report considers "all natural or man-made units bounded on all sides with some or no masonry work used for storing water for irrigation or other purposes (e.g. industrial, pisciculture, domestic/ drinking, recreation, religious, ground water recharge etc.)" as water bodies. Seven specific types of water bodies were excluded from the count which includes rivers, streams, springs, waterfalls, canals, etc. which are free flowing, without any bounded storage of water;	Maharashtra State is the leading state for water conservation schemes. Whereas West Bengal has highest number of ponds & reservoirs, whereas Andhra Pradesh has highest number of tanks, Tamil Nadu has highest number of lakes.

Context - The Ministry of Jal Shakti has recently released the report of India's first water bodies census.

Q.38) 'Piarosoma arunachalensis', which was discovered recently belongs to a species of

- a) Reptiles
- b) Birds
- c) Moths
- d) Dragonflies

Q.38) Solution (c)

Piarosoma arunachalensis is a moth species belonging to the genus Piarosoma. The moth is a Burnet moth and is largely day-flying. It belongs to the family Zygaenidae, which includes Forester and Burnet moths.

Context - Researchers from Titli Trust, National Centre for Biological Sciences and others have discovered a new moth from Tale Wildlife Sanctuary in Arunachal Pradesh. The study was published in the Zootaxa journal.

Q.39) Consider the following statements about 'Exobiology Extant Life Surveyor (EELS)'

1. It is a snake-like robot which is capable of assessing evidence for life on extreme terrain and outer planets
2. It is a being developed by European Space Commission in collaboration with Japan Aerospace Exploration Agency

Select the INCORRECT statement(s)

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

Q.39) Solution (b)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
It is a snake-like robot which can boost space exploration through its diverse adaptability to various terrains. Known as Exobiology Extant Life Surveyor or EELS, it is a system capable of exploring internal and enclosed dynamic terrain structures to assess evidence for life.	It is being developed by National Aero Space Agency(NASA)

Context - NASA is developing a snake-like robot – EELS – which is capable of assessing evidence for life on extreme terrain and outer planets

Q.40) Consider the following statements with respect to 'Vibrant Village Programme'

1. The programme aims to enhance infrastructure in villages along India's border with all the neighbouring countries
2. Providing 'Direct to Home' facility for Doordarshan and Educational channels is one of the objectives of the schemes
3. Ministry of Defence is the nodal ministry for the implementation of this scheme

Choose the correct answer using the code given below

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

Q.40) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
The Vibrant Village Programme is a scheme announced in the Union Budget 2022-23. It aims to enhance infrastructure in villages along India's border with China, in states like Himachal Pradesh, Sikkim, Uttarakhand, and Arunachal Pradesh.	The activities under VVP will include – Creating infrastructure, housing and tourism centres in villages; Providing 'Direct to Home' facility for Doordarshan and Educational channels; Establishment of road connectivity; Providing assistance for livelihood generation.	Ministry of Home Affairs is the nodal ministry for the implementation of this scheme

Context - Centre's ambitious Vibrant Villages Programme (VVP) which aims to develop infrastructure and open up villages to tourists along the China border will be integrated with the Prime Minister Gati Shakti mega project.

Q.41) With reference to 'Zero shadow day', consider the following statements

1. It is a day on which the Sun does not cast a shadow of an object at solar noon, when the sun is at the lowest point in the sky
2. It occurs twice every year in places that lie between the tropic of Cancer and the tropic of Capricorn

Select the correct statement(s)

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

Q.41) Solution (b)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Correct
A ZSD is a day on which the Sun does not cast a shadow of an object at solar noon, when the sun will be exactly at the zenith position(highest point in the sky)	There are two zero shadow days every year in May and July/August, observed in places that lie between the tropic of Cancer and the tropic of Capricorn. One falls during the Uttarayan (when the Sun moves northwards), and the other is during Dakshinayan (when the Sun moves southwards). It lasts for a small part of a second, but the effect can be seen for a minute to a minute-and-a-half.

Context - Bengaluru experienced a 'Zero Shadow Day', when vertical objects appear to cast no shadow

Q.42) Consider the following statements about 'Support for Up-gradation Preventive Repair and Maintenance of Equipment (SUPREME) initiative'

1. The scheme extends financial support for repair, upgradation, maintenance of existing analytical instrumentation facilities
2. The funding pattern in the scheme is 75:25 for all institutions and is implemented by the Ministry of Education
3. The selection process of the institutions will be through a peer review mechanism

Choose the correct answer using the code given below

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) All the above

Q.42) Solution (c)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
The Support for Up-gradation Preventive Repair and Maintenance of Equipment (SUPREME), is a first-of-its-kind programme by the government. It extends financial support for repair, upgradation, maintenance, retrofitting, or acquiring additional attachments to increase the functional capabilities of existing analytical instrumentation facilities.	The funding pattern in the scheme would be 75:25 for all private and govt owned institutions (except for state-funded institutions for which 100% funding would be considered). It is implemented by Ministry of Science and Technology	The selection process will be through a peer review mechanism and a visit to the organizations, if necessary. Expert Committee will evaluate the proposals and assist DST in making the final selection.

Context - The Union Minister of Science and Technology launched the SUPREME initiative to provide financial support for the upgradation and maintenance of analytical instrumentation facilities (AIFs)

Q.43) With reference to 'Manamadurai Pottery', consider the following statements

1. It is a pottery form originating from the state of Tamil Nadu
2. It is made from a unique type of clay sourced from water bodies and no colours are used

Select the correct statement(s)

- e) 1 only
- f) 2 only
- g) Both 1 and 2
- h) Neither 1 nor 2

Q.43) Solution (a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
Made by the locals of Manamadurai in the Sivagangai district, the pottery is popular for its special process, features, and high quality. The Vaigai River enriches the clay used for the Manamadurai pottery. It originates from Tamil Nadu.	The ingredients are sourced from the water bodies of Nedunkulam, Nathapurakki, Sundaranadappu, and Seikalathur. This is then dried for two days and then sieved. Making these pots demands skill since the bottom must be exactly round. Similarly, the pot's circumference and neck should be proportionate. The pot is painted in different colours.

Context - Manamadurai pottery from the state of Tamil Nadu earned a Geographical Indication (GI) tag

Q.44) 'Taam Ja Blue hole', a unique landform seen in news is located off the coast of

- a) Brazil
- b) Tanzania
- c) Algeria
- d) Mexico

Q.44) Solution (d)

Taam Ja Blue hole is around 900 feet deep and scientists have dubbed it the second-deepest blue hole found on the planet. It has a nearly circular shape at its surface with steep sides that form a large conic structure covered by biofilms, sediments, limestone, and gypsum ledges. It was found in the central portion of Chetumal Bay, where submerged coastal karstic sinkholes locally named 'pozas' have been reported. It is located off the coast of Mexico.

Context - Scientists have discovered a massive blue hole off the coast of the Yucatan Peninsula in Mexico.

Q.45) Consider the following statements about 'State of the Global Climate 2022 Report'

1. Carbon dioxide has seen the highest rise compared to the pre-industrial levels among greenhouse gases
2. The report is released by the World Meteorological Organization
3. Global mean ocean pH has been steadily increasing at rates not in the last 100 years

Choose the correct answer using the code given below

- a) 1 and 2 only
- b) 2 only
- c) 2 and 3 only
- d) None of the above

Q.45) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
Global GHGs emissions continued to increase in 2022. Carbon dioxide is at 149% of pre-industrial	The State of the Global Climate 2022 report has	Global mean ocean pH has been steadily

levels, Methane is at 262% of pre-industrial levels, Nitrous oxide is at 124% of pre-industrial levels. The annual increase of methane was 18 ppb from 2020 to 2021. This is the largest increase on record.	been released by the World Meteorological Organization.	declining at rates not seen for at least the past 26,000 years.
--	---	---

Context – The report was in news recently

Q.46) Which of the following adopted a law on online safety, content moderation known as ‘Digital Services Act (DSA)’

- a) Australia
- b) United Kingdom
- c) South Korea
- d) European Commission

Q.46) Solution (d)

Digital Services Act (DSA) is an EU regulation which came into force in EU law in November 2022 and will be directly applicable across the EU. The act aims to address several issues related to digital services, including online safety, content moderation, and the responsibilities of online platforms. The legislation includes new rules for large online platforms, such as social media networks and online marketplaces, to ensure greater accountability and transparency in their operations.

Context - The European Union (EU) has confirmed the names of 19 platforms that will be subject to its landmark online content rules

Q.47) With reference to ‘Sanchi Stupa’, consider the following statements

1. It was originally commissioned by the Mauryan emperor Ashoka in the 3rd century BCE
2. The torana gateways were carved and constructed in the manner of wood and covered with narrative sculptures
3. The Stupa consists of elements of Mahayana Buddhism such as representation of Buddha in human form

Choose the correct answer using the code given below

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) All the above

Q.47) Solution (a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
The Great Stupa at Sanchi is one of the oldest stone structures in India, and an important monument of Indian Architecture. It was originally commissioned by the Mauryan emperor Ashoka the Great in the 3rd century BCE. Its nucleus was a simple hemispherical brick structure built over the relics of the Buddha.	Although made of stone, the torana gateways were carved and constructed in the manner of wood and the gateways were covered with narrative sculptures. It has also been suggested that the stone reliefs were made by ivory carvers from nearby Vidisha	On these stone carvings the Buddha was never depicted as a human figure, due to aniconism in Buddhism. Instead the artists chose to represent him by certain attributes, such as the horse on which he left his father's home, his footprints, or a canopy under the bodhi tree at the point of his enlightenment.

Context - Sanchi, a world heritage site located in Madhya Pradesh, is all set to become India's first solar city.

Q.48) Consider the following statements about 'Central Drugs Standard Control Organization (CDSCO)'

1. It is responsible for approval of new drugs, conduct of clinical trials and control the quality of imported drugs in the country
2. It is an autonomous organization working under the Ministry of Chemicals and Fertilizers

Select the INCORRECT statement(s)

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

Q.48) Solution (b)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
Under the Drugs and Cosmetics Act, CDSCO is responsible for, Approval of New Drugs; Conduct of Clinical Trials; Laying down the standards for Drugs; Control over the quality of imported	Central Drugs Standard Control Organization (CDSCO) is the National Regulatory Authority (NRA) of India for the medical devices industry under the provisions of the Drugs & Cosmetics Rules. It works under the

Drugs in the country; Coordination of the activities of State Drug Control Organizations

Ministry of Health & Family Welfare. Drugs Controller General of India (DCGI) is the head of the CDSCO

Context - The Central Drugs Standard Control Organization (CDSCO) recently flagged 48 commonly used medicines as they failed the latest drug safety alert issued by the drug regulator

Q.49) Consider the following statements about 'Quasars'

1. These are very luminous objects in faraway galaxies that emit jets at radio frequencies
2. These are formed by the energy emitted by materials spiralling around a black hole right before collapsing into it

Select the correct statement(s)

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

Q.49) Solution (c)

Statement Analysis:

Statement 1	Statement 2
Correct	Correct
A quasar is an extremely luminous active galactic nucleus (AGN). These are very luminous objects in faraway galaxies that emit jets at radio frequencies. They are located in supermassive black holes, which sit in the centre of galaxies.	Quasars are formed by the energy emitted by materials spiralling around a black hole right before being sucked into it. When galaxies collide, it pushes the gas from the outer reaches of the galaxies to the centre. As the supermassive black hole gorges on the gas, it releases ferocious fountains of energy in the form of radiation, leading to the quasar.

Context - Quasars are the brightest and the most powerful objects in the universe, according to a new study

Q.50) With reference to 'National Medical Devices Policy 2023', consider the following statements

1. The policy aims to establish India as the global leader by achieving 25% share in the global market by 2035
2. The policy follows a patient-centric approach to place the medical devices sector on an accelerated path of growth

3. It discourages developing partnerships with foreign academic/industry organizations to develop medical technologies

Choose the correct answer using the code given below

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

Q.50) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
The policy aims to make India emerge as the global leader in the manufacturing and innovation of medical devices by achieving 10-12% share in the expanding global market over the next 25 years. Policy is expected to help the Medical Devices Sector grow from present \$11 Bn to \$50 Bn by 2030.	The National Medical Devices Policy, 2023 aims to place the medical devices sector on an accelerated path of growth with a patient-centric approach to meet the evolving healthcare needs of patients.	The policy encourages developing partnerships with foreign academic/industry organizations to develop medical technologies in order to be in equal pace with the world market.

Context – The policy was approved by the Cabinet recently.

Q.51) Consider the following statements with respect to ‘United Nations Permanent Forum on Indigenous Issues (UNPFII)’

1. It is a high level advisory body that reports to the United Nations General Assembly
2. It is the only UN body that is mandated to deal specifically with indigenous peoples’ issues

Select the correct statement(s)

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

Q.51) Solution (d)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Incorrect
The United Nations Permanent Forum on Indigenous Issues (UNPFII or PFII) is the UN's central coordinating body for matters relating to the concerns and rights of the world's indigenous peoples. It is an advisory body within the framework of the United Nations System that reports to the UN's Economic and Social Council (ECOSOC).	It is one of three UN bodies that is mandated to deal specifically with indigenous peoples' issues. The others are the Expert Mechanism on the Rights of Indigenous Peoples and the Special Rapporteur on the Rights of indigenous peoples

Context - The 22nd session of the United Nations Permanent Forum on Indigenous Issues was held in New York

Q.52) Consider the following statements

1. It is an ancient temple dedicated to the Lord Maha Vishnu
2. It is popularly known as the Kashi of the South
3. The temple lies on the banks of stream Papanashini, which originates from the Brahmagiri hills

Which of the following temples best describe the statements mentioned above

- a) Padmanabhaswamy Temple
- b) Thirunelli Temple
- c) Sabarimala Temple
- d) Guruvayur temple

Q.52) Solution (b)

Thirunelly Temple is an ancient temple dedicated to the Lord Maha Vishnu. It is located on the sides of Brahmagiri Hill, a part of the Sahyadri Mountain Ranges in the Wayanad district of Kerala. It is also known as the Sahyamala Kshetram and Kashi of the South. It is the only temple in the world where the devotees can perform all the rituals related to one's life, starting from birth to death and life after death. The rituals in this temple are performed on the banks of stream Papanashini, which originates from the Brahmagiri hills. The main deity idol of the temple is in the form of Chathurbhuj - Lord Vishnu with his four hands. The temple embodies classical, traditional Kerala architecture.

Context - The Indian National Trust for Art and Cultural Heritage (INTACH) recently urged the government to conserve the historically significant structures at the Sree Mahavishnu Temple at Thirunelly.

Q.53) 'Preparedness and Resilience for Emerging Threats (PRET) initiative' was launched by

- a) World Trade Organization
- b) United Nations Environment Programme
- c) World Health Organization
- d) G-20

Q.53) Solution (c)

The Preparedness and Resilience for Emerging Threats (PRET) Initiative launched by World Health Organization (WHO) is aimed at providing “guidance on integrated planning for responding to any respiratory pathogen such as influenza or coronaviruses”. It was announced at the Global Meeting for Future Respiratory Pathogen Pandemics held on 24-26 April 2023 in Geneva, Switzerland. The first module focuses on respiratory pathogens, including influenza, coronaviruses, and respiratory syncytial virus.

Context - World Health Organization (WHO) has launched the PRET initiative to be better prepared for future outbreaks of a similar scale and devastation as the COVID-19 pandemic.

Q.54) With reference to ‘Seamounts’, consider the following statements

1. They are underwater mountains formed through volcanic activity
2. Unlike volcanoes on land, all seamounts are dormant
3. They are formed on abyssal plains far away from mid-oceanic ridges
4. They provide information about the mantle’s composition and how tectonic plates evolve

Choose the correct answer using the code given below

- a) 1 and 2 only
- b) 1 and 4 only
- c) 2 and 3 only
- d) 3 and 4 only

Q.54) Solution (b)**Statement Analysis:**

Statement 1	Statement 2	Statement 3	Statement 4
Correct	Incorrect	Incorrect	Correct
Seamounts is an underwater mountain formed	Like volcanoes on land, seamounts can be active, extinct or	These are formed near mid-ocean ridges, where the earth’s tectonic plates are moving apart, allowing molten rock to rise to the seafloor. Some	Because seamounts are formed when molten rock comes up from below the tectonic plates, they provide information about the mantle's composition.

through volcanic activity	dormant volcanoes.	seamounts have also been found near intraplate hotspots – regions of heavy volcanic activity within a plate – and oceanic island chains with a volcanic and seismic activity called island arcs	Oceanographers also study seamounts to understand their influence on how water circulates and absorbs heat and carbon dioxide.
---------------------------	--------------------	---	--

Context - Scientists have reported finding 19,325 new seamounts after poring through new high-resolution data

Q.55) With reference to 'Civil Liability for Nuclear Damage Act (CLNDA)', consider the following statements

1. The Act provides for strict and no-fault liability on the operator of the nuclear plant with a right of recourse
2. The Act clearly specifies that there is no limitation on the amount and time when action for compensation can be brought against the operator

Select the correct statement(s)

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

Q.55) Solution (a)

Statement Analysis:

Statement 1	Statement 2
Correct	Incorrect
The CLNDA provides for strict and no-fault liability on the operator of the nuclear plant, where it will be held liable for damage regardless of any fault on its part. Section 17(b) of the CLNDA says that the operator of the nuclear plant, after paying their share of compensation, shall have the right of recourse where the nuclear incident has resulted as a consequence of an act of the supplier or his employee.	Section 46 of CLNDA allows victims of a nuclear catastrophe to seek claims for damages against the operator or the supplier under criminal law, even though such legal actions fall beyond the purview of the CLNDA. However, the Act also specifies the limitations on the amount and time when action for compensation can be brought against the operator

Context - The issues regarding India's nuclear liability law - the Civil Liability for Nuclear Damage Act (CLNDA) 2010 - are holding the six nuclear power reactors in Maharashtra's Jaitapur.

Q.56) Consider the following statements about Comprehensive and Progressive Agreement for Trans-Pacific Partnership

1. It is a free trade agreement (FTA) that succeeded the Trans-Pacific Partnership (TPP).
2. All the countries of CPTPP are members of the Asia-Pacific Economic Cooperation (APEC).
3. India is a member of Comprehensive and Progressive Agreement for Trans-Pacific Partnership.

Choose the correct statements:

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

Q.56) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
<ul style="list-style-type: none"> • It is a free trade agreement (FTA) between 11 nations: Australia, Brunei, Canada, Chile, Japan, Malaysia, Mexico, New Zealand, Peru, Singapore and Vietnam. • It was signed in March 2018. • It succeeded the Trans-Pacific Partnership (TPP) after the United States withdrew from the TPP in 2017. 	<ul style="list-style-type: none"> • All 11 countries of CPTPP are members of the Asia-Pacific Economic Cooperation (APEC). • It is a forum of 21 Asia-Pacific economies established in 1989. • Members: Australia; Brunei Darussalam; Canada; Chile; People's Republic of China; Hong Kong, China; Indonesia; Japan; Republic of Korea; Malaysia; Mexico; New Zealand; Papua New Guinea; Peru; the Philippines; the Russian Federation; Singapore; Chinese Taipei; Thailand; the United States of America; Vietnam. 	<ul style="list-style-type: none"> • It is a free trade agreement (FTA) between 11 nations: Australia, Brunei, Canada, Chile, Japan, Malaysia, Mexico, New Zealand, Peru, Singapore and Vietnam.

Context: The United Kingdom recently agreed to join the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP).

Q.57) Consider the following statements about Great Nicobar Islands

1. Sombrero Channel divides the Car Nicobar and Great Nicobar in the Bay of Bengal.
2. The island is home to the Shompen people, classified as a Particularly Vulnerable Tribal Group (PVTG).
3. Indira Point is located in the Great Nicobar Island.

Choose the incorrect statements:

- a) 1 only
- b) 3 only
- c) 2 and 3
- d) None

Q.57) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<p>Great Nicobar Islands</p> <ul style="list-style-type: none"> • The island is part of the Nicobar Islands rain forests ecoregion. • Mangroves and coastal forests are covered near the seashore and evergreen and deciduous forests in the interior. • The Great Nicobar Island has a hilly terrain with many fast-flowing streams. • Sombrero Channel divides the Car Nicobar and Great Nicobar in the Bay of Bengal. 	<ul style="list-style-type: none"> • The island is home to the Shompen people, classified as a Particularly Vulnerable Tribal Group (PVTG). 	<ul style="list-style-type: none"> • Indira Point is the name of the southernmost point of Republic of India. • It is situated on Great Nicobar Island in the Nicobar Islands.

Context: Union government proposed 7.114 sq. km of tribal reserve area to be utilized for the Great Nicobar project

Q.58) Consider the following statements about Fast radio bursts

1. Fast radio bursts are intense, short radio signals that last for milliseconds.
2. Neutron stars colliding and turning into a black hole produce fast radio bursts.

Choose the incorrect statements:

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

Q.58) Solution (d)

Statement Analysis

Statement 1	Statement 2
Correct	Correct

- | | |
|---|---|
| <ul style="list-style-type: none"> Fast radio bursts are intense but short radio signals that last for milliseconds. | <ul style="list-style-type: none"> Two neutron stars colliding and turning into a black hole, generating a burst of gravitational waves, this event seems to have produced a fast radio burst. |
|---|---|

Context: Astronomers have been confounded that a merger of two neutron stars could be one of the sources of fast radio bursts.

Q.59) Which of the following pairs is/are correctly matched?

GI Tag	State
Gamosa	Assam
Hmaram	Mizoram
Khola Chilli	Karnataka

Choose the correct code:

- 1, 2 and 3
- 1 only
- 1 and 2
- 3 only

Q.59) Solution (c)

Option c
Correct
<p>Assamese gamosa</p> <ul style="list-style-type: none"> The 'gamosa or gamocha' is a hand-woven rectangular cotton piece of cloth with red borders and different designs and motifs. It is traditionally offered to elders and guests as a mark of respect and honour by Assamese people. <p>Hmaram</p> <ul style="list-style-type: none"> Hmaram is a popular traditional cloth of the Mizo people. It is a small skirt, only worn by ladies and girls. <p>Khola Chilli</p> <ul style="list-style-type: none"> The Khola Chilli also known as 'Canacona Chilli' and 'Kholchi Mirchi' is harvested on the slopy hills of Khola village in Canacona taluka region of Goa in which the local soil and climate play a favorable role in maintaining the growth and quality of this chilly. Chilli is known for its taste and colour.

Context: Recently, the 'hybrid' gamosa which was used for felicitating guests at a function sparked protests across Assam.

Q.60) Pobitora Wildlife Sanctuary, recently seen in news is located in?

- West Bengal
- Assam
- Tripura
- Odisha

Q.60) Solution (b)**Option b****Correct**

- Pobitora Wildlife Sanctuary is situated in the flood plains of River Brahmaputra in the district of Morigaon in the state of Assam.
- It harbors the highest density of Rhino in the world and the second highest concentration of Rhino in Assam after Kaziranga National Park.
- It is often called 'Mini Kaziranga' because of the similar landscape and the sizeable population of the one-horned rhino.
- Fauna: Leopard, Leopard cat, Fishing cat, Jungle cat, Feral Buffalo, Wild pigs, Chinese pangolins, etc.
- Flora: Its maximum consists of the wet savannah of Arundo donax and Saccharum. The remaining area is covered by water bodies.

Context: Recently, an RTI activist flagged the mismatch in the government records of the Pobitora wildlife sanctuary.

Q.61) Consider the following statements about Central Administrative Tribunal (CAT)

1. The CAT had been established under Article 323 - A of the Constitution.
2. Members of the CAT are appointed based on the recommendations of a high-powered selection committee led by a sitting Supreme Court Judge.
3. The Tribunal is not bound by the procedure, prescribed by the Civil Procedure Code.

Choose the correct statements:

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

Q.61) Solution (a)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • Article 323 - A: The Central Administrative Tribunal had been established under Article 323 - A of the Constitution for adjudication of disputes and complaints with respect to recruitment and conditions of service of persons appointed to public services and posts in connection with the affairs of the Union or other authorities under the control of the Government. 	<ul style="list-style-type: none"> • The CAT is a multi-member body led by a chairman and members. • They are appointed by the president and come from both the judicial and administrative branches. • Members of the CAT are appointed based on the recommendations of a high-powered selection committee led by a current Supreme 	<ul style="list-style-type: none"> • The Tribunal is guided by the principles of natural justice in deciding cases and is not bound by the procedure, prescribed by the Civil Procedure Code.

	<p>Court Judge selected by the Chief Justice of India.</p> <ul style="list-style-type: none"> • Appointments are made with the permission of the Appointments Committee of the Cabinet after getting the concurrence of the Chief Justice of India. 	
--	--	--

Context: A Parliamentary committee recently asked the Central Administrative Tribunal (CAT) to decide on a priority basis the cases pending disposal for more than 10 years.

Q.62) Consider the following statements about Amogha-III Missile

1. Amogha-III is an indigenous missile developed under Integrated Guided Missile Development Programme (IGMDP).
2. It does not require external intervention after the launch.
3. One of the unique features of the missile is it has both top and direct attack modes.

Choose the incorrect statement:

- a) 1 only
- b) 2 only
- c) 3 only
- d) None

Q.62) Solution (d)

Statement Analysis

Option d
Correct
<ul style="list-style-type: none"> • Amogha-III is an indigenous missile which has been developed under Integrated Guided Missile Development Programme (IGMDP). • It has a fire-and-forget capability and does not require external intervention after the launch. • The missile also features dual-mode Imaging Infra-Red (IIR) Seeker systems with a range of 200 to 2500 meters. • One of the unique features of the missile is it has both top and direct attack modes

Context: Recently, the Bharat Dynamics (BDL) has successfully conducted a field firing test of its latest 3rd generation man-portable Anti-Tank Guided Missile (ATGM), Amogha-III.

Q.63) Consider the following statements about Antarctic Circulation

1. The Antarctic Circumpolar Current (ACC) is the largest wind-driven current on Earth.
2. It is driven by strong easterly winds and creates some of the roughest seas in the world.
3. ACC is the only current in the global ocean to close upon itself in a circumpolar loop.

Choose the correct statements:

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

Q.63) Solution (c)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
<ul style="list-style-type: none"> • The Antarctic Circumpolar Current (ACC) is the largest wind-driven current on Earth. • It is the only current that goes all the way around our planet and connects the Atlantic, Pacific, and Indian Oceans. 	<ul style="list-style-type: none"> • It is driven by strong westerly winds and creates some of the roughest seas in the world. 	<ul style="list-style-type: none"> • ACC is the only current in the global ocean to close upon itself in a circumpolar loop. • ACC is the primary means of inter-basin exchange of heat, carbon dioxide, chemicals, biology and other tracers.

Context: Torrents of Antarctic Meltwater are Slowing Ocean Currents.**Q.64) Consider the following statements about Supercapacitors**

1. Supercapacitors are electronic devices which are used to store extremely large amounts of electrical charge.
2. Supercapacitor has high power density and long durability compared to Lithium-Ion batteries.

Choose the correct statements:

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

Q.64) Solution (c)**Statement Analysis**

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • Capacitors, while storing electric charge for much longer, cannot discharge energy constantly. • Supercapacitors overcomes these shortfalls by combining the properties of capacitors and batteries into one device. • Supercapacitors - Supercapacitors are electronic devices which are used to store 	<ul style="list-style-type: none"> • It has significant advantages such as high power density, long durability, and ultrafast charging characteristics as compared to conventional capacitors and Lithium-Ion batteries (LIB).

extremely large amounts of electrical charge.	
---	--

Context: Indian Institute of Science (IISc) researchers have designed a novel ultramicro supercapacitor, capable of storing an enormous amount of electric charge.

Q.65) Exercise Cope India, recently seen in news is bilateral joint exercise between India and?

- a) France
- b) USA
- c) South Africa
- d) South Korea

Q.65) Solution (b)

Option b

Correct

- It is a bilateral joint exercise between Indian Air Force (IAF) and the United States Air Force (USAF).
- Cope India began in 2004 as a fighter training exercise.
- The exercise has evolved to incorporate subject matter expert exchanges, air mobility training, airdrop training and large-force exercises, in addition to fighter-training exercises.
- The exercise will further enhance operational capability and interoperability between the two air forces..
- The last edition of the exercise was held in 2019.

Context: Indian Air Force will soon kick off Cope India' exercise with the US Air Force (USAF) at the Kalaikunda airbase in West Bengal.

Q.66) Consider the following statements about Central Bureau of Investigation

1. CBI was established based on the recommendation of Santhanam Committee on Prevention of Corruption.
2. CBI functions under the superintendence of Department of Home, Ministry of Home Affairs.
3. Director of CBI has been provided security of two year tenure, by the Central Vigilance Commission Act, 2003.

Choose the correct statements:

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

Q.66) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3
--------------------	--------------------	--------------------

Correct	Incorrect	Correct
<ul style="list-style-type: none"> The CBI is not a statutory body but derives its power to investigate from the Delhi Special Police Establishment Act, 1946. The establishment of the CBI was recommended by the Santhanam Committee on Prevention of Corruption (1962–1964). 	<ul style="list-style-type: none"> Central Bureau of Investigation (CBI) is the premier investigating police agency in India. It provides assistance to the Central Vigilance Commission and Lokpal. It functions under the superintendence of the Deptt. of Personnel, Ministry of Personnel, Pension & Public Grievances, Government of India - which falls under the prime minister's office. 	<ul style="list-style-type: none"> In 2014, the Lokpal Act provided a committee for appointment of CBI Director: <ul style="list-style-type: none"> Headed by Prime Minister Other members - Leader of Opposition/ Leader of the single largest opposition party, Chief Justice of India/ a Supreme Court Judge. Home Ministry sends a list of eligible candidates to DoPT. Then, the DoPT prepares the final list on basis of seniority, integrity, and experience in the investigation of anti-corruption cases, and sends it to the committee. Director of CBI has been provided security of two year tenure, by the CVC Act, 2003.

Context: The Prime Minister inaugurates diamond jubilee (60 years) celebrations of Central Bureau of Investigation in New Delhi.

Q.67) Which of the following pairs is/are correctly matched?

Painting	State
Madhubani Paintings	Bihar
Cheriyal Scroll Paintings	Odisha
Basholi Paintings	Uttarakhand
Sohrai Khovar painting	Jharkhand

Choose the correct code:

- One pair only
- Two pairs only
- Three pairs only
- All the pairs

Q.67) Solution (b)

Option b
<p>Correct</p> <ul style="list-style-type: none"> The first Madhubani paintings were created by the women of the village of Maithili in Bihar as a means of expressing their feelings, aspirations, and thoughts on the walls of their homes. A stylized form of Nakashi art, Cheriyal Scroll Painting is rich in Telangana-specific regional motifs. The scrolls, which are currently only produced in Hyderabad, Telangana, are painted in a narrative style

akin to a film roll or a comic strip and feature tales from Indian mythology that are closely related to the shorter tales from the Puranas and Epics.

- Basholi paintings originated in the Basholi region of Jammu and Kashmir. It is a reputed school of miniature paintings known for its vivid, evocative colours, bold lines, and deep-set facial patterns. It is considered the first school of Pahari paintings.
- In the Hazaribagh district of Jharkhand, tribal women practise the traditional and ritualistic mural art known as Sohrai Khovar during the local harvest and wedding seasons using locally produced, naturally occurring soils of various colours.

Context: Recently, the world-famous Basohli Painting which is popular for its miniature art style from Kathua district of Jammu has obtained the Geographical Indication (GI) Tag.

Q.68) Consider the following statements about Black Carbon

1. It is formed by the incomplete combustion of fossil fuels, wood and other fuels.
2. It is a short-lived climate pollutant with a lifetime of only days to weeks after release in the atmosphere.
3. When deposited on ice and snow, black carbon particles reduce surface albedo.

Choose the incorrect statements:

- a) 2 and 3
- b) 3 only
- c) 2 only
- d) None

Q.68) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • Black carbon is the sooty black material emitted from gas and diesel engines, coal-fired power plants, and other sources that burn fossil fuel. • It is formed by the incomplete combustion of fossil fuels, wood and other fuels. 	<ul style="list-style-type: none"> • It comprises a significant portion of particulate matter or PM, which is an air pollutant. • It is a short-lived climate pollutant with a lifetime of only days to weeks after release in the atmosphere. 	<ul style="list-style-type: none"> • It is an important contributor to warming because it is very effective at absorbing light and heating its surroundings. It contributes to warming by converting incoming solar radiation to heat. • When deposited on ice and snow, black carbon and co-emitted particles reduce surface albedo (the ability to reflect sunlight) and heat the surface.

Context: A Parliamentary Standing Committee on Water Resources recently recommended a detailed study on the impact of atmospheric pollution, including black carbon, on the Himalayan glacier system.

Q.69) Consider the following statements

1. Alumina is the main components of bauxite ore.
2. Bayer Process is the industrial means of refining bauxite to produce alumina.

Choose the incorrect statements:

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

Q.69) Solution (d)**Statement Analysis**

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • Alumina is the main components of bauxite, so bauxite is refined in order to produce Alumina. • Alumina, also called aluminum oxide, synthetically produced Al_2O_3, a white or nearly colourless crystalline substance that is used as a starting material for the smelting of aluminum metal. 	<ul style="list-style-type: none"> • The Bayer process is the principal way for producing alumina by refining Bauxite. • Bauxite other than with 30-60% of aluminum oxide contains mixture of silica, iron oxides and titanium dioxide. <p>Bayer process of producing alumina can be divided into following four steps:</p> <p>Digestion Filtration Precipitation Calcination</p>

Context: Scientists have estimated the quantity of rare earth elements that can be recovered from a toxic byproduct of aluminum extraction.

Q.70) Prosopis chilensis, recently seen in news is?

- a) An invasive plant from South America
- b) A gecko (lizard) found in Nilgiri hills
- c) A plant fungus infecting human beings
- d) A newly found bagworm moth species of Kerala

Q.70) Solution (a)

Option a
Correct
Prosopis Chilensis
<ul style="list-style-type: none"> • Prosopis chilensis is a drought-resistant plant. • Prosopis chilensis is a species of tree in the genus Prosopis, belonging to the family Fabaceae. • It is found in parts of central Chile, southern Peru, Bolivia, and Andean Argentina.

- Its common names include Chilean mesquite, cupesí, and Chilean Algarrobo.
- It is a trouble for Gulf of Mannar island groups.
- It is not only trouble for these islands but also Tuticorin, Vembar, Kilakkarai, and Mandapam groups.
- The coral reef has been destroyed in several places near these islands.

Context: An invasive plant from South America is threatening indigenous plants across Gulf of Mannar islands.

Q.71) Consider the following statements about Lokpal

1. Only the former Chief Justice of India should be the chairperson of the Lokpal
2. The term of office for Lokpal Chairman and Members is 5 years or till the age of 70 years.
3. The Inquiry Wing of the Lokpal has been vested with the powers of a civil court.

Choose the correct statements:

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

Q.71) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
<ul style="list-style-type: none"> • Lokpal is a multi-member body, that consists of one chairperson and a maximum of 8 members. • Chairperson of the Lokpal should be either the former Chief Justice of India or the former Judge of Supreme Court or an eminent person with impeccable integrity and outstanding ability, having special knowledge and expertise of minimum 25 years in the matters relating to anti-corruption policy, public administration, vigilance, finance including insurance and banking, law and management. 	<ul style="list-style-type: none"> • The term of office for Lokpal Chairman and Members is 5 years or till the age of 70 years. • The members are appointed by the president on the recommendation of a Selection Committee. 	<ul style="list-style-type: none"> • It has the powers to superintendence over, and to give direction to CBI. • The Inquiry Wing of the Lokpal has been vested with the powers of a civil court. • Lokpal has powers of confiscation of assets, proceeds, receipts and benefits arisen or procured by means of corruption in special circumstances. • Lokpal has the power to recommend transfer or suspension of public servant connected with allegation of corruption. • Lokpal has the power to give directions to prevent the destruction of records

		during the preliminary inquiry.
--	--	---------------------------------

Context: Lokpal's office recently informed that Around 68% of corruption complaints against public functionaries that landed with the Lokpal were "disposed off" without any action in the past four years.

Q.72) Consider the following statements about Dhawan II engine

1. It is a 3D-printed cryogenic engine.
2. It utilises two rocket propellants, liquid natural gas (LNG) and liquid oxygen (LoX).

Choose the incorrect statements:

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

Q.72) Solution (d)

Statement Analysis

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> It is a 3D-printed cryogenic engine developed by the Skyroot Aerospace for its heavier vehicle, the Vikram II rocket. 	Features: <ul style="list-style-type: none"> It uses a 3D-printed torch igniter and bellows actuated cryo-injection valve with a quick response time. It utilises two high-performance rocket propellants, liquid natural gas (LNG) and liquid oxygen (LoX), which require cryogenic temperatures (below -150° Celsius) for storage and operation.

Context: Recently, a private space vehicle company Skyroot Aerospace test-fired its 3D-printed Dhawan II engine.

Q.73) Which of the below given pairs is/are correctly matched?

Pass	State/UT
Chang-La	Ladakh
Rohtang Pass	Himachal Pradesh
Niti Pass	Uttarakhand
Nathu La	Sikkim

Choose the correct code:

- a) One pair only
- b) Two pairs only
- c) Three pairs only
- d) All the pairs

Q.73) Solution (d)**Option d****Correct****Chang-La**

- Connects Ladakh with Tibet
- altitude of 5360 m
- This has a temple dedicated to Chang-La Baba after whom the temple has been named.

Rohtang Pass

- road link between Kullu, Lahul and Spiti Valleys

Niti Pass

- Connects Uttarakhand with Tibet

Nathu La

- Connects Sikkim with Tibet
- altitude of 4310 m
- it forms part of an offshoot of the ancient Silk Route
- an important trade route between India and China
- It was closed after the Chinese aggression on India in 1962 but was reopened in 2006 as the governments of the two countries decided to enhance their trade through land routes

Context: A massive avalanche recently struck the popular Nathu La mountain pass in Sikkim, trapping several tourists.

Q.74) Consider the following statements about HydroSOS

1. HydroSOS is a global operational mechanism of World Meteorological Organisation (WMO) for hydrological data.
2. It aims to provide an operational system capable of assessing the current hydrological status and its likely near-future outlook for all areas of the globe.

Choose the correct statements:

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

Q.74) Solution (c)**Statement Analysis**

Statement 1	Statement 2
Correct	Correct

- | | |
|--|---|
| <ul style="list-style-type: none"> HydroSOS is a global operational mechanism of World Meteorological Organisation (WMO) for hydrological data. HydroSOS integrates hydrological status assessments and outlooks from, and for National Hydrological Services (NHS). | <ul style="list-style-type: none"> It aims to provide an operational system capable of assessing the current hydrological status and its likely near-future outlook for all areas of the globe. The system offers simple, accessible hydrological information to users such as government bodies, UN bodies, aid agencies, and the general public. It provides hydrological products to National Meteorological and Hydrological Services (NMHSs) for its informed decision-making |
|--|---|

Context: The World Meteorological Organisation's Hydrological Status and Outlook System offered data analysis tools for simulations in UN Water Conference 2023.

Q.75) Netravali Wildlife Sanctuary recently seen in news is located in?

- Goa
- Kerala
- Karnataka
- Maharashtra

Q.75) Solution (a)

Option a

Correct

About Netravali Wildlife Sanctuary:

- It is situated in the Sanguem Taluka in Eastern Goa.
- River Netravali or Neturli originates in this sanctuary which is an important tributary of the Zuari River.
- To the north of the Netravali wildlife sanctuary lie the Bhagwan Mahavir Wildlife Sanctuary and the Cotigao Wildlife Sanctuary lies to its
- It has two all-season waterfalls, namely Savri and Mainapi.
- Flora: The forest is a predominantly moist deciduous type with patches of semi-evergreen forest in the valleys. The high-altitude areas in the hills have natural grassy patches that provide ideal habitat for the herbivorous population.
- Fauna: Indian gaur, spotted deer, sambar deer, barking deer, wild boar, and black-faced langur. the Great Pied Hornbills, Black Panther, Slender Loris and the Giant Squirrel.

Context: A black panther recently rescued from a village in Goa is healthy and it will be released into the Netravali Wildlife Sanctuary.

Q.76) Consider the following statements

- Jainism recognised the existence of god but placed them lower than Jina.
- Anekantavada in Jainism refers to the simultaneous acceptance of multiple, diverse, even contradictory viewpoints.
- Syadavada in Jainism means the method of examining different probabilities.

Choose the correct statements:

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

Q.76) Solution (b)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
Tenets of Jainism <ul style="list-style-type: none"> • Belief in God: Jainism recognised the existence of god but placed them lower than Jina (Mahavira). • It did not condemn the varna system but attempted to mitigate the evils of the varna order and the ritualistic Vedic religion. • According to Mahavira, a person is born in higher or lower varna as the consequence of the sins or the virtues in the previous birth. Thus, Jainism believes in the “transmigration of the soul” and the “theory of Karma.” 	ANEKANTAVADA <ul style="list-style-type: none"> • Emphasises that the ultimate truth and reality is complex, and has multiple-aspects i.e “theory of plurality”. • It refers to the simultaneous acceptance of multiple, diverse, even contradictory viewpoints. 	SYADVADA <ul style="list-style-type: none"> • All judgments are conditional, holding good only in certain conditions, circumstances, or senses. • Seven modes of prediction (Saptabhangi Nayavada) • Syadavada literally means the method of examining different probabilities.

Context: Mahavir Jayanti which marks the birth of Lord Mahavir was recently celebrated.

Q.77) Consider the following statements about Quasar

1. A quasar is an extremely active and luminous type of active galactic nucleus (AGN).
2. An AGN is a supermassive black hole that is active and feeding at the centre of a galaxy.
3. Quasars form in regions of the universe where the large-scale density of matter is much higher than average.

Choose the incorrect statements:

- a) 1 only
- b) 2 and 3
- c) None
- d) 2 only

Q.77) Solution (c)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct

<ul style="list-style-type: none"> • A quasar is an extremely active and luminous type of active galactic nucleus (AGN). 	<ul style="list-style-type: none"> • An AGN is nothing more than a supermassive black hole that is active and feeding at the center of a galaxy. • The brightest quasars can outshine all of the stars in the galaxies in which they reside, which makes them visible even at distances of billions of light-years. 	<ul style="list-style-type: none"> • Quasars form in regions of the universe where the large-scale density of matter is much higher than average. • Most quasars have been found billions of light-years away. • Quasars emit energies of millions, billions, or even trillions of electron volts. This energy exceeds the total of the light of all the stars within a galaxy.
---	---	--

Context: The Hubble Space Telescope recently discovered a pair of quasars from the early universe.

Q.78) Consider the following statements

1. Indian Space Research Organisation has launched two 'Slocum' gliders in the Bay of Bengal.
2. Slocum gliders are a type of autonomous underwater vehicle (AUV) that are capable of carrying out long-duration missions.

Choose the correct statements:

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

Q.78) Solution (b)

Statement Analysis

Statement 1	Statement 2
Incorrect	Correct
<ul style="list-style-type: none"> • Indian National Centre for Ocean Information Services (INCOIS), under the Ministry of Earth Sciences (MoES), has just launched two fresh modern deep seas 'Slocum' gliders in the Bay of Bengal. 	<ul style="list-style-type: none"> • Slocum gliders are a type of autonomous underwater vehicle (AUV) that are capable of carrying out long-duration missions, spanning several months or even years, to collect scientific data from the ocean. • Objective: To study the physical and biogeochemical parameters of the sea and get an insight into climate change.

Context: Recently, the Indian National Centre for Ocean Information Services (INCOIS), under the Ministry of Earth Sciences (MoES), has just launched two fresh modern deep seas 'Slocum' gliders in the Bay of Bengal.

Q.79) Consider the following statements about UN Statistical Commission

1. It was established by the UN Economic and Social Council in 1947, as its Functional Commission.
2. It is the highest body of the global statistical system.
3. The members are elected by the United Nations General Assembly on the basis of an equitable geographical distribution.

Choose the correct statements:

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

Q.79) Solution (a)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
<ul style="list-style-type: none"> The United Nations Statistical Commission was established by the UN Economic and Social Council in 1947, as its Functional Commission. 	<ul style="list-style-type: none"> It is the highest body of the global statistical system. It is the highest decision making body for international statistical activities. Functions - It sets statistical standards and develop concepts and methods, including their implementation at the national and international level. 	<ul style="list-style-type: none"> Memberships - The Commission consists of 24 member countries of the United Nations. The term of office of members is four years. The members are elected by the United Nations Economic and Social Council on the basis of an equitable geographical distribution.

Context: India has been elected to the highest statistical body of the United Nations for a 4-year term beginning January 1, 2024.

Q.80) World Energy Transitions Outlook report, recently seen in news is published by?

- a) World Economic Forum
- b) International Renewable Energy Agency
- c) International Atomic Energy Agency
- d) International Energy Agency

Q.80) Solution (b)

Option b
Correct
International Renewable Energy Agency (IRENA) released the World Energy Transitions Outlook report. Key highlights of the report: <ul style="list-style-type: none"> The global energy transition is still “off-track” and falls short of the 1.5 degrees Celsius pathway.

- To keep 1.5°C alive, deployment levels must grow from some 3,000 gigawatts (GW) at present to over 10,000 GW in 2030, an average of 1,000 GW annually”.
- Public sector intervention is required to channel investments towards countries more equitably.
- Global investment in energy transition technologies reached a new record of \$1.3 trillion in 2022, yearly investments must more than quadruple to over \$5 trillion to stay on the 1.5 degrees Celsius pathway.
- By 2030, cumulative investments must amount to USD 44 trillion, with transition technologies representing 80 per cent of the total, or \$35 trillion, “prioritising efficiency, electrification, grid expansion and flexibility”.
- Current pledges and plans fall well short of IRENA’s 1.5°C pathway and will result in an emissions gap of 16 gigatonnes (Gt) in 2050.

Context: Recently, the International Renewable Energy Agency (IRENA) released the World Energy Transitions Outlook report.

Q.81) Consider the following statements about Urban Infrastructure Development Fund

1. It was established through priority sector lending shortfall.
2. It is managed under the aegis of National Housing Bank.
3. It will be used by public agencies to create urban infrastructure in Tier 1 cities only.

Choose the incorrect statements:

- a) 2 only
- b) 1, 2 and 3
- c) 3 only
- d) None

Q.81) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
<ul style="list-style-type: none"> • Union Budget 2023-24 has announced the setting up of the Urban Infrastructure Development Fund (UIDF). • It was established through priority sector lending shortfall. 	<ul style="list-style-type: none"> • It will be managed by the National Housing Bank. 	<ul style="list-style-type: none"> • It will be used by public agencies to create urban infrastructure in Tier 2 and Tier 3 cities. • Tier II cities are those which have a population range of 50,000 to 100,000 • Tier III cities are classified as those with a population of 20,000 to 50,000.

Context: Union Budget 2023-24 has announced the setting up of the Urban Infrastructure Development Fund (UIDF).

Q.82) Consider the following statements about International Seabed Authority

1. It is an autonomous international organization established under the 1982 United Nations Convention on the Law of the Sea (UNCLOS).
2. Its primary function is to regulate the exploration of poly-metallic nodules.

Choose the correct statements:

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

Q.82) Solution (c)

Statement Analysis

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • It is an autonomous international organization established under the 1982 United Nations Convention on the Law of the Sea (UNCLOS). • Mandate: It has the mandate to ensure the effective protection of the marine environment from harmful effects that may arise from deep-seabed-related activities. 	<ul style="list-style-type: none"> • It has its headquarters in Kingston, Jamaica • Its primary function is to regulate the exploration of poly-metallic nodules.

Context: Recently, the International Seabed Authority has decided that it will start taking permit applications from companies that want to mine the ocean floor.

Q.83) Consider the following statements

1. Variable stars are stars that experience fluctuations in their brightness.
2. Cepheids stars are special type of variable star which is hot and massive.
3. Cepheids stars have tendency to pulsate radially and vary in both diameter and temperature.

Choose the correct statements:

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

Q.83) Solution (a)

Statement Analysis

Option a
Correct
About Cepheid star:
<ul style="list-style-type: none"> • It is a type of variable star which brighten and dim periodically.

- Variable stars are essentially stars that experience fluctuations in their brightness
- Cepheids stars are special type of variable star in that they are hot and massive – five to twenty times as much mass as our Sun – and are known for their tendency to pulsate radially and vary in both diameter and temperature.
- Cepheid star's period (how often it pulsates) is directly related to its luminosity or brightness.
- They have luminosities 500-30,000 times greater than that of the Sun.
- They are used as cosmic yardsticks out to distances of a few tens of millions of light-years.

Context: A recent study carried out by the researchers were able to achieve the most accurate calibration of Cepheid stars.

Q.84) Consider the following statements about Extended Range Anti-Submarine Rocket (ER-ASR)

1. It is designed to intercept submarines at specific depths.
2. It consists of two motor propulsion systems which can fire the rocket in Short Range mode and Long Range mode.
3. ER-ASR can achieve a range over fifteen kilometers.

Choose the correct statements:

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

Q.84) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
Extended Range Anti-Submarine Rocket (ER-ASR): <ul style="list-style-type: none"> • It was designed and developed by Pune-based Armament Research and Development Establishment (ARDE) and High Energy Materials Research Laboratory (HEMRL). • It is designed to intercept submarines at specific depths. 	<ul style="list-style-type: none"> • It has been designed to replace the existing Russian origin RGB rockets which are already fitted in ships. • It consists of two motor propulsion systems which can fire the rocket in Short Range mode and Long Range mode to achieve different range capabilities. 	<ul style="list-style-type: none"> • While the RGB has a range of five kilometers, the ER-ASR can achieve a range over eight kilometers.

Context: The Extended Range Anti-Submarine Rocket (ER-ASR) designed by two Pune-based facilities of the Defence Research and Development Organisation (DRDO) was recently successfully test-fired for the first time.

Q.85) Madh Island, recently seen in news is located in?

- a) Tamil Nadu
- b) Gujarat
- c) Maharashtra
- d) West Bengal

Q.85) Solution (c)**Option c****Correct**

Madh Island:

- It is an island located in Malad west, in the western suburbs of Mumbai, Maharashtra.
- It consists of several fishing villages and farmlands bounded by Arabian sea to the west and Malad creek to the east.
- Over the years, Madh has evolved from a group of fishing villages to a prominent residential and holiday destination.
- It also houses Airforce and Naval stations.
- It is primarily inhabited by Kolis, Marathis, and Roman Catholics.
- It also has an old Fort, Madh Fort and a 16th century Portuguese Church – St. Bonaventure.
- 'Erangal' is a picturesque village on Madh island which is a popular filming location.

Context: The western zone bench of the National Green Tribunal (NGT) recently revoked the stay on demolition of five studios in the Madh Island.

Q.86) Consider the following statements about Copernicus programme

1. It provides accurate and accessible information to improve the management of the environment and mitigate the effects of climate change.
2. This initiative is headed by the European Commission (EC) in partnership with the European Space Agency (ESA).

Choose the incorrect statements:

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

Q.86) Solution (d)**Statement Analysis**

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • Copernicus programme is the most ambitious Earth observation programme. It provides accurate, timely and easily accessible information to improve the management of the environment, understand and mitigate the effects of climate change and ensure civil security. 	<ul style="list-style-type: none"> • This initiative is headed by the European Commission (EC) in partnership with the European Space Agency (ESA).

Context: March 2023 saw variations on several meteorological fronts, according to the Copernicus Climate Change Service (C3S).

Q.87) Consider the following statements about Pradhan Mantri Sammridhi Kendra (PMKSK)

1. The PMKSK will serve as a one-stop shop for Indian farmers buying quality agri-inputs.
2. The nodal Ministry to implement the program is Ministry of Agriculture & Farmers Welfare.

Choose the correct statements:

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

Q.87) Solution (a)

Statement Analysis

Statement 1	Statement 2
Correct	Incorrect
<ul style="list-style-type: none"> • The Pradhan Mantri Sammridhi Kendra (PMKSK) will serve as a one-stop shop for Indian farmers buying quality agri-inputs such as fertilisers, seeds, or pesticides. • PMKSK is also known as the Model Fertilizer Retail Shop. • Under the scheme, the retail fertiliser shops in the country will also be converted into PMKSK in a phased manner. 	<ul style="list-style-type: none"> • Ministry - Ministry of Chemicals & Fertilisers. • Objective - PMKSKs are designed to create awareness among farmers about the balanced use of fertilisers (including organic fertilisers and micronutrients). • Services - The Pradhan Mantri Sammridhi Kendra will cater to the needs of the farmers in the country.

Context: The Prime Minister inaugurated 600 Pradhan Mantri Kisan Samruddhi Kendras (PMKSK).

Q.88) Consider the following statements about Dark matter

1. It is a hypothetical invisible mass that is responsible for adding gravity to galaxies and other bodies.
2. Dark matter does not interact with the electromagnetic force.
3. Dark matter makes up about 27% of the universe.

Choose the correct statements:

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

Q.88) Solution (a)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> Dark matter is a hypothetical invisible mass thought to be responsible for adding gravity to galaxies and other bodies. 	Why called dark matter? <ul style="list-style-type: none"> It is called so because unlike normal matter (i.e. stars and galaxies), dark matter does not interact with the electromagnetic force. 	How much is dark matter? <ul style="list-style-type: none"> According to NASA, Dark matter seems to outweigh visible matter roughly six to one, making up about 27% of the universe. Roughly 68% of the universe is dark energy. Dark matter makes up about 27%. The rest visible matter is 5% of the universe.

Context: Astronomers have recently made the most detailed map ever of mysterious dark matter using the universe's very first light.

Q.89) Consider the following statements about UN Commission on Population and Development

- It was established by the Economic and Social Council (ECOSOC) in 1946.
- The Commission is composed of 193 Member countries.
- Member countries are elected by the UNGA for a period of four years on the basis of geographic distribution.

Choose the correct statements:

- 1 and 2
- 2 and 3
- 1, 2 and 3
- 1 and 3

Q.89) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
<ul style="list-style-type: none"> A Population Commission was established by the Economic and Social Council (ECOSOC) in 1946, which was renamed as the Commission on Population and Development by the General Assembly in 1994. 	<ul style="list-style-type: none"> The Commission is composed of 47 Member countries. The meetings of commission was held typically every two or three years until 1994, after which it has been held once a year. 	<ul style="list-style-type: none"> Member countries are elected by the Economic and Social Council for a period of four years on the basis of geographic distribution. Commission was constituted as three-tiered intergovernmental mechanism that plays the primary role in the follow-up to the implementation of the programme of Action.

Context: In 56th session of UN's Commission on Population and Development, held at New York, deputy Secretary-General warned that the goal of achieving quality education for all by 2030 is "seriously off track".

Q.90) Cyber Surakshit Bharat initiative, recently seen in news is an initiative of?

- Ministry of Electronics and Information Technology (MeitY)
- Ministry of Home Affairs
- NITI Aayog and Prime Minister's Office
- Ministry of Defence

Q.90) Solution (a)

Option a
Correct
<p>What is the Cyber Surakshit Bharat initiative?</p> <ul style="list-style-type: none"> The Cyber Surakshit Bharat initiative was conceptualised with the mission to spread awareness about cyber-crime and build capacities of Chief Information Security Officers (CISOs) and frontline IT officials, across all government departments. It was launched by the Ministry of Electronics and Information Technology (MeitY) in 2018 in cooperation with National e-Governance Division (NeGD) and various industry partners in India. The CISO training is the first-of-its-kind partnership between the Government and industry consortium under Public Private Partnership (PPP) model.

Context: National e-Governance Division (NeGD) has organised 35th Chief Information Security Officers (CISO) Deep-Dive training programme Under the Cyber Surakshit Bharat initiative.

Q.91) Consider the following statements about Public Interest Immunity (PII)

- In the PII proceedings SC will appoint an amicus curiae, to act as a bridge between the parties involved in public interest immunity claims.
- The court-appointed amicus will be given access to the materials sought to be withheld by the state.

Choose the correct statements:

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

Q.91) Solution (c)

Statement Analysis

Statement 1	Statement 2
Correct	Correct

- | | |
|---|---|
| <ul style="list-style-type: none"> • The Supreme Court evolved the “less restrictive” Public Interest Immunity (PII) claims proceedings as an “alternative” to the sealed cover proceedings while dealing with state requests for confidentiality. • The PII proceedings would be a “closed sitting,” but a reasoned order allowing or dismissing the PII claim of the state should be pronounced in open court. • The court will appoint an amicus curiae, which means "friend of the court", to act as a bridge between the parties involved in public interest immunity claims. | <ul style="list-style-type: none"> • The court-appointed amicus will be given access to the materials sought to be withheld by the state and allowed to interact with the applicant and their lawyer before the proceedings to ascertain their case. |
|---|---|

Context: Recently, the Supreme Court of India ruled on the use of sealed cover proceedings in courts and the telecast ban of a Malayalam channel.

Q.92) Consider the following statements

1. Dabba trading is a form of informal trading that takes place outside the purview of the stock exchanges.
2. Here, traders bet on stock price movements without incurring a real transaction to take physical ownership of a particular stock.
3. It is recognized as an offence under the Securities Contracts (Regulation) Act (SCRA), 1956.

Choose the correct statements:

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

Q.92) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • Dabba trading is a form of informal trading that takes place outside the purview of the stock exchanges. 	<ul style="list-style-type: none"> • In this practice, traders bet on stock price movements without incurring a real transaction to take physical ownership of a particular stock as is done in an exchange. 	<ul style="list-style-type: none"> • It is recognised as an offence under Section 23(1) of the Securities Contracts (Regulation) Act (SCRA), 1956 and upon conviction, can invite imprisonment for a term extending up to 10 years or a fine up to ₹25 crore, or both.

Context: Recently, National Stock Exchange (NSE) issued a string of notices naming entities involved in “dabba trading”.

Q.93) How many of the following pairs is/are incorrectly matched?

Inscription	Associated
Junagarh Rock inscription	Kharavela
Hathigumpha Inscription	Parantaka I
Uttaramerur inscription	Rudradaman
Maski Inscription	Ashoka

Choose the correct code:

- One pair only
- Two pairs only
- Three pairs only
- All the pairs

Q.93) Solution (c)

Option c

Correct

Junagarh Rock inscription

- The Junagarh Rock inscription of Rudradaman is considered as an early example of chaste Sanskrit, written in mid second century AD. It mentions that one of Chandragupta Maurya's governors, Pushyagupta, was responsible for building a dam on Sudarshana Lake near Girnar in Kathiawar.

Hathigumpha Inscription

- King Kharavela inscribed the Hathigumpha Inscription, also known as the Elephant Cave Inscription, from the Udayagiri-Khandagiri Caves in Odisha during the second century BCE.
- The main source of information about Kalinga ruler Kharavela is the Hathigumpha Inscription at Udayagiri Caves.

Uttaramerur inscription

- While Uttaramerur has multiple inscriptions spanning centuries, the most famous one being referred to by the Prime Minister is from the reign of Parantaka I (907-953 AD) who belongs to the Chola dynasty.
- The famous inscription from Parantaka I's reign is found on the walls of the Vaikunda Perumal Temple.
- The inscription gives details of the functioning of the local Sabha, i.e., the village assembly.
- A Sabha was an assembly exclusively of brahmins and had specialised committees tasked with different things.

Maski Inscription

- Maski is a village and archaeological site in Karnataka's Raichur district. It is located on the banks of the Maski River, a tributary of the Tungabhadra.
- A minor rock edict of Emperor Ashoka can be found at the site. It was Emperor Ashoka's first edict that included the name Ashoka rather than 'Devanampriya' or 'Piyadassi.'
- The inscription, which is still a dharma shasana, instructs people to follow the tenets of Buddhism.

Context: Recently, the Prime Minister of India referred to the Uttaramerur inscription in Kanchipuram, Tamil Nadu, while discussing India's democratic history.

Q.94) Consider the following statements about National Agriculture Market (e-NAM)

1. It is a pan-India electronic trading portal which networks the existing APMC mandis to create a unified national market for agricultural commodities.
2. National Agricultural Cooperative Marketing Federation of India Ltd.(NAFED) is the lead agency for implementing eNAM under the aegis of the Ministry of Agriculture and Farmers' Welfare.

Choose the correct statements:

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

Q.94) Solution (a)**Statement Analysis**

Statement 1	Statement 2
Correct	Incorrect
<ul style="list-style-type: none"> • It is a pan-India electronic trading portal which networks the existing APMC mandis to create a unified national market for agricultural commodities. • It was launched on 14th April 2016, and is completely funded by the Government of India. 	<ul style="list-style-type: none"> • Small Farmers Agribusiness Consortium (SFAC) is the lead agency for implementing eNAM under the aegis of the Ministry of Agriculture and Farmers' Welfare, Government of India. • Vision: To promote uniformity in agriculture marketing by streamlining procedures across the integrated markets, removing information asymmetry between buyers and sellers and promoting real-time price discovery based on actual demand and supply. • Mission: Integration of APMCs across the country through a common online market platform to facilitate pan-India trade in agriculture commodities, providing better price discovery through a transparent auction process based on the quality of produce along with timely online payment.

Context: Prime Minister recently said that with the help of the National Agriculture Market (e-NAM) portal, the farmers will be able to decide the place, time and price of selling their products, and reduce the burden on the consumers.

Q.95) The Cumbum grapes which recently earned the Geographical Indication tag, is grown in which of the following state?

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

Q.95) Solution (b)

Option b**Correct**

The Cumbum grapes recently earned the Geographical Indication tag.

- The Cumbum valley located at the Western Ghats in Tamil Nadu.
- It is known as the Grapes city of South India and cultivates the Panneer Thratchai.
- This variety is also known as Muscat Hamburg.
- It was first introduced in Tamil Nadu by a French priest in 1832.
- The agro climate and the soil condition of the Cumbum region is very conducive for the cultivation of the Muscat variety.
- This variety is popular for its quick growth and early maturity.
- This ensures that the crop is available in the market almost throughout the year.
- The rich soil and water of the land are said to enhance the flavor of the natural fruit.
- The grape bunches are medium to large in size and compact in nature.
- These grapes are rich in vitamins, tartaric acid and antioxidants and reduces the risk of some chronic diseases.
- They are also known for a superior taste apart from the purplish-brown colour.
- Uses - The grapes grown are suitable for making wine, spirit, jams, canned grape juice and raisins.

Context: The Cumbum grapes recently earned the Geographical Indication tag.

Q.96) Consider the following statements

1. A curative petition is the last judicial corrective measure which can be pleaded in any judgment or decision passed by the Supreme Court.
2. A mercy petition the last alternative available to the convict after exhausting all legal remedies.
3. The President and the Governor power to grant mercy is derived from Article 72 and Article 151 of the Constitution of India respectively.

Choose the correct statements:

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

Q.96) Solution (a)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
<ul style="list-style-type: none"> • Curative petition: The concept of the curative petition was first evolved by the Supreme Court of India in the matter of Rupa Ashok Hurra vs. Ashok Hurra and Anr. (2002) where the question was whether an aggrieved person is entitled to any relief against 	<ul style="list-style-type: none"> • A mercy petition is a plea made by a convict who has been sentenced to death or life imprisonment to seek mercy from the President 	<ul style="list-style-type: none"> • The power to grant mercy is derived from Article 72 and Article 161 of the Constitution of India, which vest this prerogative in the

<p>the final judgement/order of the Supreme Court, after the dismissal of a review petition.</p> <ul style="list-style-type: none"> • A curative petition is the last judicial corrective measure which can be pleaded in any judgment or decision passed by the Supreme Court which is normally decided by Judges in-chamber. 	<p>or the Governor of the state.</p> <ul style="list-style-type: none"> • It is the last alternative available to the convict after exhausting all legal remedies. 	<p>President and the Governor respectively.</p>
---	---	---

Context: Recently, The Supreme Court said that prisoners on death row were taking advantage of inordinate delays in deciding mercy petitions to seek commutation of their punishment to life sentence, thereby defeating the purpose of death sentence.

Q.97) Consider the following statements

1. Solar prominence is a large, bright feature extending outward from the Sun's surface.
2. Polar crown prominences (PCP) are loops of plasma, or ionized gas, that is ejected from the solar surface by magnetic fields.

Choose the incorrect statements:

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

Q.97) Solution (d)

Statement Analysis

Statement 1	Statement 2
<p>Correct</p> <p>Solar prominence</p> <ul style="list-style-type: none"> • It is a large, bright feature extending outward from the Sun's surface. • These are anchored to the Sun's surface in the photosphere, and extend outwards into the Sun's hot outer atmosphere, called the corona. • It forms over timescales of about a day, and stable prominences may persist in the corona for several months, looping hundreds of thousands of miles into space. • The red-glowing looped material is plasma, a hot gas comprised of electrically charged hydrogen and helium. • This plasma flows along a tangled and twisted structure of magnetic fields generated by the sun's internal dynamo. 	<p>Correct</p> <p>Polar crown prominences (PCP):</p> <ul style="list-style-type: none"> • These are similar to normal solar prominences, which are loops of plasma, or ionized gas, that is ejected from the solar surface by magnetic fields. • They occur near the sun's magnetic poles at latitudes between 60 and 70 degrees North and South, • Due to the much stronger magnetic fields near the poles they collapse back towards the sun. • This collapse back to the sun has earned them the nickname "plasma waterfalls."

- An erupting prominence occurs when such a structure becomes unstable and bursts outward, releasing the plasma.

Context: Recently, an Argentina-based astronomer captured a structure that looked like a wall of plasma on the surface of the sun.

Q.98) Consider the following statements about Mircha Rice

1. The size and shape of the grain is like that of black pepper.
2. It is part of the UNESCO cultural and intangible heritage list.
3. It is grown in the state of Bihar.

Choose the correct statements:

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

Q.98) Solution (c)

Statement Analysis

Option c
Correct
<p>Mircha rice</p> <ul style="list-style-type: none"> • Mircha' rice of Bihar's West Champaran has been awarded the GI tag. • The size and shape of the grain appear like that of black pepper, hence it is known as Mircha or Marcha Rice. • The grains and flakes of this rice have a unique aroma that makes it different. • This rice is famous for its aroma, palatability and its aromatic chura (rice flakes) making qualities. • The cooked rice is fluffy, non-sticky, sweet and easily digestible with a popcorn-like aroma. • An application for GI tag was submitted on behalf of Marcha Dhan Utpadak Pragatisheel Samuh, a registered organization of paddy cultivators.

Context: 'Mircha' rice of Bihar's West Champaran gets GI tag.

Q.99) Consider the following statements

1. Sudan is a landlocked country in Eastern Africa.
2. Sudan is drained by the Nile River and its tributaries.
3. Khartoum city, recently in news is located in the South Sudan.

Choose the correct statements:

- a) 1 and 2
- b) 2 only

- c) 1 and 3
d) 2 and 3

Q.99) Solution (b)**Option b****Correct**

- It is located in northeastern Africa.
- It is bounded on the north by Egypt, on the east by the Red Sea, Eritrea, and Ethiopia, on the south by South Sudan, on the west by the Central African Republic and Chad, and on the northwest by Libya.
- Capital: Khartoum
- Sudan is mainly composed of vast plains and plateaus that are drained by the Nile River and its tributaries.
- The country is dominated by Muslims, most of whom speak Arabic and identify themselves as “Arabs.”

Context: At least 56 civilians have been killed and 595 people, including combatants, have been wounded in Khartoum, the capital of Sudan.

Q.100) Barnawapara wildlife sanctuary, recently seen in news is located in?

- a) Chhattisgarh
b) Jharkhand
c) Odisha
d) West Bengal

Q.100) Solution (a)**Option a****Correct**

Barnawapara wildlife sanctuary

- It is located in the district of Raipur in Chhattisgarh.
- The rivers Balmedhi, Jonk and Mahanadi are the lifeline river which runs along the sanctuary.
- River Balamdehi forms the western boundary and Jonk River forms the northeastern boundary of the Sanctuary.
- Flora: The sanctuary contains major vegetation of Teak, Sal and Mixed forest.
- Fauna: Cheetal, Sambhar, Nilgai and Wild Boar, Sloth Bear, Wild Dog, are commonly seen.

Context: Recently, the Chhattisgarh forest department has carried out a successful translocation of four sub-adult wild buffaloes from Assam to Barnawapara wildlife sanctuary.

Q.101) Consider the following statements about Stablecoins

1. They are cryptocurrencies whose value is pegged to that of another currency, commodity, or financial instrument.
2. Unlike cryptocurrencies like Bitcoin, stablecoins' prices remain steady.
3. They are open, global, and accessible to anyone on the internet.

Choose the correct statements:

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

Q.101) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • They are cryptocurrencies whose value is pegged, or tied, to that of another currency, commodity, or financial instrument. • Stablecoins aim to provide an alternative to the high volatility of the most popular cryptocurrencies, including Bitcoin (BTC). 	<ul style="list-style-type: none"> • Unlike cryptocurrencies like Bitcoin, stablecoins' prices remain steady, in accordance with whichever fiat currency backs them. • Eg: USDC stablecoin is backed by dollar-denominated assets. 	Benefits: <ul style="list-style-type: none"> • They are open, global, and accessible to anyone on the internet. • They're fast, cheap and secure to transmit.

Context: The United States Congress recently made an attempt to create a legislative framework for the increasingly popular stablecoins.

Q.102) Consider the following statements about Indian Wild Buffalo

1. Indian Wild Buffalo are mainly found in the alluvial grasslands and marshes.
2. Indian Wild Buffalo is the state animal of Chhattisgarh.
3. Indian Wild Buffalo's IUCN conservation status is Vulnerable.

Choose the incorrect statements:

- 3 only
- 2 only
- 2 and 3
- 1, 2 and 3

Q.102) Solution (a)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
<ul style="list-style-type: none"> The Indian Wild Buffalo is a large species of bovine native to the Indian Sub-continent and South East Asia. 	Habitat: is mainly found in the alluvial grasslands, marshes, swamps and river valleys. <ul style="list-style-type: none"> In India, they are generally concentrated in North East India in Kaziranga National Park, Manas and Dibru-Saikhowa National Parks, Laokhowa Wildlife Sanctuary and Bura Chapori Wildlife Sanctuary, D'Ering Memorial Wildlife Sanctuary in Arunachal Pradesh. 	Conservation Status IUCN: Endangered Wild Life (Protection) Act, 1972: Schedule 1

Context: Recently, the Chhattisgarh forest department has carried out a successful translocation of four sub-adult wild buffaloes from Assam to Barnawapara wildlife sanctuary.

Q.103) Consider the following statements about Aranmula Mirror

- It is an indigenous product of Tamil Nadu and has received GI tag.
- The uniqueness of this mirror is its front reflection, unlike the back reflection in normal glass mirrors

Choose the correct statements:

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

Q.103) Solution (b)

Statement Analysis

Statement 1	Statement 2
Incorrect	Correct
<ul style="list-style-type: none"> Aranmula Kannadi literally means the mirror of Aranmula, a small town in Pathanamthitta district, Kerala. It was the first craft item from the state to receive a geographical indication tag in 2005. 	<ul style="list-style-type: none"> The uniqueness of this mirror is its front reflection, unlike the back reflection in normal glass mirrors. This means the reflective surface is placed on a back support, as opposed to regular mirrors where the reflective surface is behind glass.

- These mirrors also have a cultural significance in Kerala: It is regarded as one of the eight auspicious objects (ashtamangalya) displayed during religious festivals or auspicious occasions and ceremonies.
- It is believed to bring prosperity, luck and wealth into the life of its custodian.

Context: On the eve of vishu, the Aranmula mirrors are crafted in a fast pace.

Q.104) Consider the following statements about IBSA Forum

1. It is a Trilateral Dialogue Forum of India, Brazil and South Africa which was created in the year 1993.
2. IBSA Fund is managed by the UN Office for South-South Cooperation (UNOSSC).

Choose the correct statements:

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

Q.104) Solution (b)

Statement Analysis

Statement 1	Statement 2
Incorrect	Correct
<ul style="list-style-type: none"> • It is a Trilateral Dialogue Forum of India, Brazil and South Africa which was created in the year 2003. • The grouping was formalised under the name of the IBSA Dialogue Forum under the Brasilia Declaration. 	IBSA Fund: <ul style="list-style-type: none"> • It was established in 2004 which facilitates the execution of human development projects to advance the fight against poverty and hunger in developing countries. • It is managed by the UN Office for South-South Cooperation (UNOSSC).

Context: The trilateral India-Brazil-South Africa forum is likely to receive increased diplomatic focus, according to persons aware of the matter.

Q.105) Bihu dance, recently seen in news, is an indigenous folk dance of which of the following Indian state?

- a) Tripura
- b) Assam
- c) Meghalaya
- d) Nagaland

Q.105) Solution (b)

Option b
Correct

Bihu Dance

- It is a folk dance from the Indian state of Assam related to the festival of Bihu.
- This dance is performed by both young men and women.
- The three types of Bihu dance festival are Bohag Bihu, Kongali Bihu and Bhogali Bihu.
- The most important of the 3 Bihu festival is the spring festival "Bohag Bihu" or Rangali Bihu celebrated in the middle of April, signifies the beginning of the New Year according to the Assamese calendar.
- The celebrations of these 3 festivals are dependent upon the crop cycle.
- Songs sung in Bihu are woven around themes of love and often carry erotic overtones.
- Dancers wear traditionally colorful Assamese clothing.
- Mekhela is a cylindrically shaped outfit worn on the lower half of the body, the chador is draped like a shawl to cover the upper half.
- The attires are usually made from Muga silk, which is exclusively produced in Assam.
- Women dancers also wear ethnic heavy jewellery and beautify their braids with colourful flowers.
- It was a proud moment for the state when professional Bihu dancers performed at the London Olympics in 2012.

Context: The largest Bihu performance is in a bid to enter the Guinness Book of World Records.

Q.106) Consider the following statements

1. Yuva Portal aims to help in connecting and identifying potential young start-ups across the country.
2. It is a joint initiative of Ministry of Corporate Affairs and Ministry of Finance.

Choose the incorrect statements:

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

Q.106) Solution (b)**Statement Analysis**

Statement 1	Statement 2
Correct	Incorrect
<ul style="list-style-type: none"> • 'Yuva' portal: It is aimed to help in connecting and identifying potential young start-ups across the country • It will help in connecting and identifying potential young Start-Ups. 	<ul style="list-style-type: none"> • The Union Minister of State Science & Technology launched the 'Yuva' portal.

Context: Yuva portal and One Week- One Lab Program was launched by Union Minister of State Science & Technology

Q.107) Consider the following statements about United Nations Population Fund (UNFPA)

1. It is a subsidiary organ of the UN General Assembly and works as a sexual and reproductive health agency.
2. UNFPA is supported by voluntary contributions of donor governments and intergovernmental organizations.
3. The State of World Population Report is published by UNFPA.

Choose the correct statements:

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

Q.107) Solution (a)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • It is a subsidiary organ of the UN General Assembly and works as a sexual and reproductive health agency. • The UN Economic and Social Council (ECOSOC) establishes its mandate. 	<ul style="list-style-type: none"> • UNFPA is not supported by the UN budget, instead, it is entirely supported by voluntary contributions of donor governments, intergovernmental organizations, the private sector, foundations and individuals. 	<ul style="list-style-type: none"> • The United Nations Population Fund's, 'The State of World Population Report, 2023', titled '8 Billion Lives, Infinite Possibilities: The Case for Rights and Choices' was released.

Context: The United Nations Population Fund's, 'The State of World Population Report, 2023', titled '8 Billion Lives, Infinite Possibilities: The Case for Rights and Choices' was released.

Q.108) Consider the following statements about Sea Cucumber

1. Sea cucumbers belong to benthic animal group.
2. They excrete inorganic nitrogen and phosphorus which enhance the productivity of benthic animals.
3. Lakshadweep has created the world's first conservation area for sea cucumbers.

Choose the correct statements:

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

Q.108) Solution (d)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> • These are part of a larger animal group called echinoderms and are invertebrates that live on the seafloor. • Their body shape is similar to a cucumber, but they have small tentacle-like tube feet that are used for locomotion and feeding. • They are found in all marine environments throughout the world, from shallow to deep-sea environments. Sea cucumbers are benthic, meaning they live on the ocean floor. 	<ul style="list-style-type: none"> • They excrete inorganic nitrogen and phosphorus, enhancing the productivity of benthic biota. 	<ul style="list-style-type: none"> • Lakshadweep has created the world's first conservation area for sea cucumbers. • Other than the sea around Lakshadweep Islands and Andaman Nicobar Islands, the Gulf of Mannar at the confluence of the Indian Ocean and Bay of Bengal in Tamil Nadu is also home to sea cucumbers.

Context: Recently, nearly 105 kilograms of sea cucumber was seized by the Indian Coast Guard (ICG) near Attangarai in the Ramanathapuram district of Tamil Nadu.

Q.109) Consider the following statements

1. Electromagnetic Ion Cyclotron (EMIC) waves is a form of plasma waves.
2. Killer electrons are the electrons trapped in Earth's outer radiation belt that can damage satellites.
3. EMIC waves are used to precipitate the killer electrons.

Choose the incorrect statements:

- a) 2 only
- b) 3 only
- c) None
- d) 1 and 3

Q.109) Solution (c)

Option c
Correct
Electromagnetic Ion Cyclotron (EMIC) waves - It is a form of plasma waves.
Plasma Waves
<ul style="list-style-type: none"> • The waves that are emanate from the sun having Low-density, ionized gases are called as plasmas. • Plasma is a good electrical conductor with properties that are strongly affected by electric and magnetic fields. • Waves in plasmas are an interconnected set of particles and fields which propagate in a periodically repeating fashion.

EMIC waves

- EMIC waves play an important role in precipitation of killer electrons.
- Killer Electrons - Electrons having speed close to speed of light, which form the radiation belt of planet Earth.
- Killer electrons are hazardous to our space-borne technology/instruments.
- EMIC waves are sensible electromagnetic emissions observed in the Earth's magnetosphere (the cavity in which the Earth lies and stays protected from the wrath of the Sun).
- They can resonate with electrons with a wide energy range --- from 500 keV to hundreds of MeV.
- It make the electrons precipitate to high-latitude atmosphere.
- Short-period modulation of EMIC wave events is common and dependent on EMIC wave frequency.
- The short period decreases with an increase in the peak frequency of the EMIC wave, and stronger EMIC wave events were likely to have a higher peak frequency.
- It is important to improve the understanding of EMIC wave modulation and how they interact with energetic particles that impact satellites and their communication.

Context: Scientists have identified Electromagnetic Ion Cyclotron (EMIC) waves, a form of plasma waves in the Indian Antarctic station, Maitri

Q.110) he term Magnaporthe Oryzae recently seen in news, is related to which of the following statements

- It is a new cyprinid fish species found in the Sabari River, main tributary of Godavari.
- It is a fungus originated in South America threatening food security to the wheat fields.
- It is a newly discovered drug to treat Malaria disease.
- It is an invasive a drought-resistant plant from South Africa.

Q.110) Solution (b)

Option b**Correct**

- It is a fungus first reported in South America.
- The fungus is destroying South American wheat crops and it is spreading worldwide.
- The pathogen affects the crop in a disease known as 'wheat blast'.
- It infects wild and cultivated grasses, most notably rice and wheat.
- This fungus has the potential to affect not only wheat but also other major food crops.
- The pathogen is also resistant to fungicides.
- Rice blast fungus is a hemibiotrophic pathogen meaning that initially, the fungus establishes a biotrophic relationship with its host (i.e., invades a few cells, steals nutrients, but does not kill host cells).
- Eventually, the fungus becomes necrotrophic, destroying plant tissue.
- Infection starts when three-celled conidia from the pathogen adhere to the host's surface.
- Initial attachment of conidia and other fungal structures is mediated by mucilage.
- Cell to cell movement is achieved through plasmodesmata.
- After colonization of the host and infection of aerial parts, lesions are formed and sporulation takes place.
- These are the source of primary inoculum that enables the disease to reinitiate.

Context: Magnaporthe oryzae, a fungus infects wild and cultivated grasses in South America are now spreading to Asia and Africa.

Q.111) Consider the following statements about Web3

1. It is a centralized web that is owned by the users themselves.
2. Here users are in control of their data and can choose whom they share it with.
3. It allows for the creation and exchange of digital assets.

Choose the incorrect statements:

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

Q.111) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
<ul style="list-style-type: none"> • It is known as the decentralized web, network of computers that are owned and controlled by the users themselves. • It is built on top of existing Internet infrastructure and not in competition with previous versions of the web platform. 	<ul style="list-style-type: none"> • It allows for the creation and exchange of digital assets, decentralized applications and smart contracts in the blockchain system. • It is best known for its use in cryptocurrencies like Bitcoin and Ethereum. • It is used to store and transfer digital currencies in a secure and transparent way. 	<ul style="list-style-type: none"> • Peer-to-Peer - It allows for peer-to-peer transactions and interactions, which means that users are in control of their data and can choose whom they share it with. • Data ownership and control: Users can trust the network itself to keep their data and transactions secure.

Context: The technology was in news.

Q.112) Consider the following statements

1. Quantum computing uses subatomic particles, such as electrons or photons.
2. Quantum bits, allow subatomic particles to exist in more than one state at the same time.
3. National Quantum Mission aims to develop Satellite based secure quantum communications between ground stations over a range of 5000 km within India.

Choose the correct statements:

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

Q.112) Solution (c)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
<p>Quantum Computing</p> <ul style="list-style-type: none"> It is an area of computer science focused on the development of technologies based on the principles of quantum theory. Quantum computing uses subatomic particles, such as electrons or photons. 	<ul style="list-style-type: none"> Quantum bits, or qubits, allow these particles to exist in more than one state (i.e., 1 and 0) at the same time. Qubits can exploit the interference between their wave-like quantum states to perform calculations that might otherwise take millions of years. 	<ul style="list-style-type: none"> The mission will also help developing: Satellite based secure quantum communications between ground stations over a range of 2000 km within India. Long distance secure quantum communications with other countries Inter-city quantum key distribution over 2000 km Multi-node Quantum network with quantum memories

Context: Recently, the union cabinet chaired by the Prime Minister has approved the National Quantum Mission (NQM) to aid scientific and industrial research and development in quantum technology.

Q.113) Consider the following statements about National Technical Research Organisation (NTRO)

- It is a technical intelligence Agency under the Ministry of Home Affairs.
- NTRO is headed by a Chairman who reports directly to the Prime Minister of India.
- It was formed in 2009, after the Mumbai terror attack to strengthen the country's national security apparatus.

Choose the correct statements:

- 1 and 3
- 2 only
- 2 and 3
- 1, 2 and 3

Q.113) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Incorrect
<ul style="list-style-type: none"> It is a technical intelligence Agency under the National Security Advisor in the Prime Minister's Office, India. Primary Objective: Gather technical intelligence, which involves 	<ul style="list-style-type: none"> NTRO is headed by a Chairman who reports directly to the Prime Minister of India. 	<ul style="list-style-type: none"> It was formed in 2004 to strengthen the country's national security apparatus.

intercepting and analyzing communications signals, imagery intelligence, and cyber intelligence.	• Its headquarters is located in New Delhi, and it has operational centres in various parts of the country.	• It is under the direct control of the Prime Minister's Office and operates as an autonomous organization.
--	---	---

Context: The Central Government recently appointed former Special Protection Group (SPG) chief as the Chairman of the National Technical Research Organisation (NTRO).

Q.114) Consider the following statements about SATHI Portal

1. It is a Centralized Online System for seed traceability, authentication and inventory.
2. It was developed by National Informatics Centre (NIC) in collaboration with the Union Ministry of Agriculture and Farmers Welfare.

Choose the incorrect statements:

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

Q.114) Solution (d)

Statement Analysis

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • It aims to ensure quality assurance system, identify the source of seed in the seed production chain. • It is a Centralized Online System for seed traceability, authentication. • It is also an inventory designed to deal with the challenges of seed production, quality seed identification and seed certification. • There will be a QR code under this system, through which the seeds can be traced. 	<ul style="list-style-type: none"> • Developed by - National Informatics Centre (NIC) in collaboration with the Union Ministry of Agriculture and Farmers Welfare. • Theme - Uttam Beej – Samriddh Kisan (Choice of seeds in prosperous Agriculture).

Context: Union Agriculture and Farmers Welfare Minister Shri Narendra Singh Tomar launched the SATHI Portal and Mobile App

Q.115) Wellington Reef, sometimes seen in the news recently, is located in?

- a) Galapagos Islands
- b) Cocos Island
- c) Lakshadweep

d) Kiritimati Atoll

Q.115) Solution (a)

Option a
Correct
Wellington Reef
<ul style="list-style-type: none"> • It is found off the coast of Darwin Island in the far north of the Galápagos archipelago, Ecuador. • It was thought to be among the few structural shallow coral reefs in the islands to have survived the destruction wreaked by an El Niño event in 1982-83. • The deep-water coral communities were in the depths of the Galápagos marine reserve. • These newly discovered reefs are potentially of global significance, a 'canary in the mine' for other reefs global sites. • It can be used to monitor over time to see how pristine habitats evolve with our current climate crisis. • It could also help understand the role of MPAs in the carbon cycle and fisheries.

Context: Scientists discovered new coral reef in the Galapagos reef where Wellington reef is believed to be the one which survived El Nino weather in 1982.

Q.116) Consider the following statements

1. Biomass pellets are a type of renewable fuel made from organic materials such as agricultural residues, and energy crops.
2. Torrefied biomass is processed at 250-350°C in the presence of oxygen.
3. It is mandatory in India to use biomass as combustion fuel along with coal in coal-fired thermal power plants.

Choose the correct statements:

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

Q.116) Solution (b)

Statement Analysis

Statement 1	Statement 2	Statement 3
Correct	Incorrect	Correct
<ul style="list-style-type: none"> • These are a type of renewable fuel made from organic materials such as wood, agricultural residues, and energy crops. • These are produced by compressing organic 	<p>These are two kinds</p> <ul style="list-style-type: none"> • Torrefied: It is processed at 250-350°C in the absence of oxygen, leading to the formation of torrefied biomass. • Non-torrefied: In this biomass is shredded, grinded and sent to a pellet reactor, where it is 	<ul style="list-style-type: none"> • The policy to use biomass pellets in coal-burning thermal power plants came into force in October 2022. • It is mandatory in India to use biomass or agricultural residue as combustion fuel

materials under high pressure.	compressed into pellet form with the help of binders such as sawdust, bagasse, molasses, starch and others.	along with coal in coal-fired thermal power plants. <ul style="list-style-type: none"> The biomass used for co-combustion in the power plants is processed and refined into pellets with a calorific value comparable to coal.
--------------------------------	---	--

Context: Recently, the Central Pollution Control Board (CPCB) revised the financial grants for biomass pellet manufacturing units.

Q.117) Consider the following statements about Biodiversity Heritage Sites (BHS)

- Richness of domesticated species is one of the components to notify an ecosystem as Biodiversity Heritage Sites.
- BHS are notified by State Government in consultation with local bodies under Wildlife Protection Act, 1972.

Choose the incorrect statements:

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

Q.117) Solution (b)

Statement Analysis

Statement 1	Statement 2
Correct	Incorrect
<p>BHS are unique ecosystems having rich biodiversity comprising of any one or more of the following components:</p> <ul style="list-style-type: none"> Richness of wild as well as domesticated species or intra-specific categories. High endemism. Presence of rare and threatened species, keystone species, and species of evolutionary significance. Wild ancestors of domestic/cultivated species or their varieties. Past pre-eminence of biological components represented by fossil beds and having significant cultural, ethical or aesthetic values and are important for the maintenance of cultural diversity, with or without a long history of human association with them. 	<ul style="list-style-type: none"> Under Section-37 of the Biological Diversity Act, 2002, the State Government, in consultation with local bodies, may notify areas of biodiversity importance as BHS. The State Government, in consultation with the Central Government, may frame rules for the management and conservation of BHS. The creation of BHS may not put any restriction on the prevailing practices and usages of the local communities other than those voluntarily decided by them.

Context: West Bengal recently notified four more biodiversity heritage sites (BHS), taking the tally in the state to eight.

Q.118) Consider the following statements about United Nations Capital Development Fund (UNCDF)

1. It is the only UN agency mandated to focus primarily on the least developed countries (LDCs).
2. It provides investment capital and technical support to both the public and the private sectors.

Choose the correct statements:

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

Q.118) Solution (c)

Statement Analysis

Statement 1	Statement 2
Correct	Correct
<ul style="list-style-type: none"> • It is the United Nations' flagship catalytic financing entity for the world's 46 Least Developed Countries (LDCs). • It is an autonomous, voluntarily funded UN organization, affiliated with the UN Development Programme (UNDP). • It is the only UN agency mandated to focus primarily on the least developed countries (LDCs). 	<ul style="list-style-type: none"> • It works to invest and catalyse capital to support to LDCs in achieving the sustainable growth and inclusiveness envisioned by the 2030 Agenda for Sustainable Development and the Doha Programme of Action for the least developed countries, 2022–2031. • It provides investment capital and technical support to both the public and the private sectors.

Context: Atal Innovation Mission (AIM), NITI Aayog, and the United Nations Capital Development Fund (UNCDF) recently launched a white paper aimed at making India a global leader in agritech innovation.

Q.119) Consider the following statements about Hakki Pikkis Tribes

1. They are the semi-nomadic bird catching tribes in the regions of west and south India.
2. The Hakki-Pikkis follow the matriarchal society.
3. UNESCO has listed 'Vaagri' as one of the endangered languages.

Choose the correct statements:

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

Q.119) Solution (a)**Statement Analysis**

Statement 1	Statement 2	Statement 3
Correct	Correct	Correct
<ul style="list-style-type: none"> Hakki Pikkis are semi-nomadic tribe, traditionally of bird catchers and hunters. (Hakki in Kannada means 'bird' and Pikki means 'catchers'). They are believed to hail originally from the bordering districts of Gujarat and Rajasthan. They live in several states in west and south India, particularly concentrated in Karnataka. 	<ul style="list-style-type: none"> They are divided into four clans, Gujaratia, Panwar, Kaliwala and Mewaras. Men of the tribe would hunt while women begged in villages. The Hakki-Pikkis are said to be a matriarchal group. 	<ul style="list-style-type: none"> The community speaks an Indo-Aryan language. Their mother tongue was designated 'Vaagri' by scholars. UNESCO has listed 'Vaagri' as one of the endangered languages.

Context: Hakki Pikkis, a semi-nomadic tribes were caught in Sudan conflict

Q.120) Global Food Policy Report 2023, recently seen in news is published by which of the organization?

- Food and Agriculture Organization (FAO)
- International Rice Research Institute (IRRI)
- International Food Policy Research Institute (IFPRI)
- United Nations Development Programme (UNDP)

Q.120) Solution (c)

Option c
Correct
<p>Key highlights of the report:</p> <ul style="list-style-type: none"> The report called for a more proactive response to food system shocks with a focus on three key areas: Crisis prediction and preparation Building resilience before and during crises Making crisis response supportive and inclusive of women, forced migrants and other vulnerable groups. It advocated for strengthening agrifood value chains to support livelihoods and food security during crises. It advised governments to maintain a business environment that fosters flexibility, and technical and financial innovation.

Context: Recently, the International Food Policy Research Institute (IFPRI) published Global Food Policy Report, 2023 which said that investing in early warning systems is essential to save lives, livelihoods and money.

Q.121) Consider the following statements about 'New India Literacy Programme'

1. It is a Centrally Sponsored Scheme which aims to cover non-literates in the age group of 25 years and above
2. The scheme is implemented predominantly through offline mode but other modes like TV, Radio can also be used for dissemination of Foundational Literacy and Numeracy

Select the correct statement(s)

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

Q.121) Solution (d)**Statement Analysis:**

Statement 1	Statement 2
Incorrect	Incorrect
Government has launched a new Centrally Sponsored Scheme namely, "New India Literacy Programme" (NILP) for implementation during five years from the FYs 2022-23 to 2026-27 with financial outlay of Rs.1037.90 crore out of which Rs.700.00 crore is Central share and Rs.337.90 crore is State share. The scheme aims to cover a target of 5.00 crore non-literates in the age group of 15 years and above. The Scheme has five components: (i) Foundational Literacy and Numeracy, (ii) Critical Life Skills, (iii) Vocational Skills Development, (iv) Basic Education and (v) Continuing Education.	The scheme is based on technology and implemented predominantly through online mode. The teaching learning material and resources have been made available on DIKSHA platform of NCERT and can be accessed through the mobile-apps. Further, other modes like TV, Radio, Samajik Chetna Kendra etc. are also to be used for dissemination of Foundational Literacy and Numeracy. All the non-literate above 15 years of age can avail the benefits of the scheme.

Context - New India Literacy Programme launched to cover a target of 5.00 crore non-literates in the age group of 15 years and above

Q.122) With reference to 'Gamma Ray Bursts (GRB)', consider the following statements

1. They are the most powerful events in the universe, detectable across billions of light-years.
2. Most GRBs are caused by massive stars collapsing into black holes or by the merging of two neutron stars
3. Gamma Ray Bursts are classified as long or short based on whether the event lasts for more or less than two milli-seconds

Choose the correct answer using the code given below

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

Q.122) Solution (a)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Correct	Correct	Incorrect
They are the most powerful events in the universe, detectable across billions of light-years. A light-year is the distance a beam of light travels in a single Earth year, or 9.5 trillion kilometers.	Most GRBs are caused by massive stars collapsing into black holes or by the merging of two neutron stars. GRBs are a very bright and powerful explosion of gamma rays, the most energetic form of light.	Astronomers classify GRBs as long or short based on whether the event lasts for more or less than two seconds.

Context - A cosmic explosion in 2022 was the brightest ever — and may overturn decades-long theory on gamma ray bursts according to a news analysis by Pune institute

Q.123) Consider the following statements about 'Corporate Debt Market Development Fund'

1. The proposed CDMDF will have an initial corpus of Rs 30,000 crore contributed by mutual funds.
2. This fund is guaranteed by the National Credit Guarantee Trust Company (NCGTC) and the facility will be managed by National Stock Exchange

Select the correct statement(s)

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

Q.123) Solution (d)

Statement Analysis:

Statement 1	Statement 2
Incorrect	Incorrect

The 'Corporate Debt Market Development Fund (CDMDF) is a backstop facility for specified debt funds during market dislocations. The fund is intended to provide liquidity support in the event of a financial crisis. The proposed CDMDF will have an initial corpus of Rs 3,000 crore contributed by mutual funds.

This fund is guaranteed by the National Credit Guarantee Trust Company (NCGTC) and the backstop facility will be managed by SBI Mutual Fund. Specified mutual fund schemes will have access to the fund for selling securities during market dislocation. This access is proportional to the contribution made to the fund at a mutual fund level.

Context - The Securities and Exchange Board of India (SEBI) has introduced the 'Corporate Debt Market Development Fund' to prevent financial crisis.

Q.124) With reference to 'Tibetan Buddhism', consider the following statements

1. It evolved from the Hinayana traditions of Buddhism incorporating many shamanic practises post-Gupta medieval period
2. It also includes tantric practices, such as deity yoga and the Six Dharmas of Naropa, as well as methods that are seen as transcending tantra
3. The main goal of Tibetan Buddhism is to become a Boddhisatva and spread the message of Buddhism

Choose the correct answer using the code given below

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

Q.124) Solution (b)

Statement Analysis:

Statement 1	Statement 2	Statement 3
Incorrect	Correct	Correct
Tibetan Buddhism evolved as a form of Mahāyāna Buddhism stemming from the latest stages of Indian Buddhism (which included many Vajrayāna elements). It thus preserves many Indian Buddhist tantric practices of the post-Gupta early medieval period (500	Apart from classical Mahāyāna Buddhist practices like the six perfections, Tibetan Buddhism also includes tantric practices, such as deity yoga and the Six Dharmas of Naropa, as well as methods that are seen as	The main goal is Buddhahood. It is a title for those who are awake, and have attained nirvana and Buddhahood through their own efforts and insight, without a teacher to point out the dharma.

to 1200 CE), along with numerous native Tibetan developments.

transcending tantra, like Dzogchen.

Context - Dalai Lama named a US-born Mongolian boy as the 10th Khalkha Jetsun Dhampa, the head of the Janang tradition of Tibetan Buddhism.

Q.125) 'Lynx- U2 system' seen in news recently is related to

- a) Ranging and detection
- b) Missile defence
- c) Gunfire control
- d) Bomb detection

Q.125) Solution (c)

Lynx-U2 System is a naval gun fire control system designed and developed indigenously. The system will be installed on the NOPV (Naval Offshore Patrol Vessel), Talwar and Teg class of ships. The system has been completely designed and developed by Bharat Electronics Limited (BEL). It is capable of accurately tracking and engaging targets amidst sea clutter. It is capable of accurately tracking air/surface targets and generating required target data for predicting weapon aiming points and engaging targets.

Context - Ministry of Defence recently signed a contract with Bharat Electronics Limited for the procurement of 13 Lynx-U2 fire control systems for the Navy.