

IAS BABA



60 DAY RAPID REVISION

(RARE) SERIES

UPSC/IAS Prelims 2023

**CURRENT AFFAIRS
PART -1 COMPILATION**



Q.1) Consider the following statements with respect to 'Financial Services Institution Bureau'

1. The Financial Services Institutions Bureau will select the chiefs of public sector banks and insurance companies
2. FSIB will be the single entity for making recommendations for appointments of Whole-time Director and Non-executive Chairman in Public Sector Banks
3. The chairman of FSIB will be appointed by the Ministry of Finance.

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.1) Solution (b)

Explanation:

- Statement 1 - The Financial Services Institutions Bureau will select the chiefs of public sector banks and insurance companies. The **FSIB will have the clear mandate to issue guidelines and select general managers and directors** of state-run non-life insurers, general insurers and Financial Institutions.
- Statement 2 - FSIB will be the **single entity** for making recommendations for appointments of WTD (Whole-time Director) and NEC (Non-executive Chairman) in Public Sector Banks, India Private Limited company and Financial Institutions.
- Statement 3 - The FSIB will **comprise a chairperson nominated by the central government**; the secretaries of the departments of financial services and public enterprises; the chairman of the Insurance Regulatory and Development Authority of India; and a deputy governor of the Reserve Bank of India (RBI).
- Apart from them, there will be three members with knowledge of banks and other financial institutions, and three more with knowledge of insurance, according to the order.

Q.2) With reference to 'Going Online as Leaders Programme 2.0', consider the following statements



1. It aims to digitally upskill youth by promoting entrepreneurship amongst tribal communities of the country
2. It has been launched by Ministry of Tribal Affairs in partnership with Microsoft India

Select the correct statement(s)

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

Q.2) Solution (a)

Explanation:

- Statement 1 - It aims to digitally upskill 10 lakh youth by on promoting entrepreneurship amongst tribal communities of the country and opening up opportunities for them using digital technology.
- Statement 2 - Ministry of Tribal Affairs launched the 2nd Phase of the Going Online as Leaders Programme (GOAL) programme. **The programme is a joint initiative of the Ministry of Tribal Affairs and Meta (FaceBook)**

Q.3) 'miR444' seen in news recently is a

- a) Ransomware
- b) Attack Helicopter
- c) RNA
- d) Prognostic biomarker

Q.3) Solution (c)

Explanation:

- The gene transcription factor MADS27, which regulates nitrate absorption, root development and stress tolerance, is activated by the micro-RNA, miR444, therefore offering a new way to control these properties of the plant.
- This 'miR444' can be used to increase nitrate absorption, enhance root development and help the plant to tolerate more stress.



Q.4) Consider the following statements with respect to 'State Ranking Index for NFSA-2022'

1. The index covers all the programs and schemes implemented by other ministries and departments under the NFSA
2. Tamil Nadu is in the top place in the index released by Ministry of Food and Consumer Affairs

Select the correct statement(s)

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

Q.4) Solution (d)

Explanation:

- Statement 1 - The index **does not cover programs and schemes implemented by other ministries and departments under the NFSA.**
- The Index denotes only the efficiency of TPDS operations, it does not reflect the level of hunger, if any or malnutrition, or both, in a particular state or union territory, the report clarified.
- Statement 2 - **Odisha** has topped the ranking of states for implementation of the National Food Security Act (NFSA), followed by Uttar Pradesh and Andhra Pradesh in the index released by the Ministry of Food and Consumer Affairs.
- Among the special category states (the North Eastern states, Himalayan states, and the Island states), Tripura has obtained the first rank. Himachal Pradesh and Sikkim are at the second and third positions

Q.5) With reference to 'Large Hadron Collider', consider the following statements

1. It is the world's largest and highest-energy particle collider used to study particle physics
2. The goal of the experiment is to allow physicists to test measuring the properties of the Higgs boson
3. The collider primarily collides two opposing beams of electrons at high speed

Select the correct statement(s)



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

Q.5) Solution (a)

Explanation:

- Statement 1 - The Large Hadron Collider (LHC) is the **world's largest and highest-energy particle collider**.
- It was built by the European Organization for Nuclear Research (CERN) between 1998 and 2008 in collaboration with over 10,000 scientists and hundreds of universities and laboratories, as well as more than 100 countries
- Statement 2 - The LHC's goal is to allow physicists **to test the predictions of different theories of particle physics**, including measuring the properties of the Higgs boson searching for the large family of new particles predicted by super symmetric theories, and other unresolved questions in particle physics.
- Statement 3 - The LHC primarily **collides proton beams, but it can also accelerate beams of heavy ions**: lead–lead collisions and proton–lead collisions are typically performed for one month a year.
- The collider has four crossing points where the accelerated particles collide. Seven detectors, each designed to detect different phenomena, are positioned around the crossing points.

Q.6) Consider the following statements with respect to the 'Forest Conservation Rules (2022)' which was notified recently

1. The Rules mandate the requirement of attaining a gram sabha NOC before diverting forest land for a project
2. It sets up an Advisory Committee and a screening committee at State/Union Territory (UT) government-level
3. States are given the responsibility of settling forest rights of forest dwellers (Forest Rights Act, 2006)

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.6) Solution (d)

Explanation:

- Statement 1 – Incorrect, the new **Forest Conservation Rules do not mention the earlier requirement of attaining a gram sabha NOC before diverting forest land** for a project. They also allow forest rights to be settled after the final approval for forest clearances has been granted by the Centre.
- Statement 2 - Incorrect, it constituted an **Advisory Committee, a regional empowered committee at each of the integrated regional offices** and a screening committee at State/Union Territory (UT) government-level.
- Statement 3 - Correct, **States are given the responsibility of settling forest rights of forest dwellers (Forest Rights Act, 2006) and allowing diversion of forest land.**

Q.7) Consider the following statements with respect to 'Rebate of State and Central Levies and Taxes (RoSCTL) Scheme'

1. The exporters are issued a Duty Credit Scrip for the value of embedded taxes and levies contained in the exported product under this scheme
2. The scheme was notified by the Ministry of Commerce and Industry
3. The scheme is presently applicable to all exporters except petroleum and jewellery sector

Choose the correct answer using the code given below

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

Q.7) Solution (d)

Explanation:

- Statement 1 - Correct, in 2019, the **Ministry of Textiles** notified a new scheme by the name Rebate of State and Central Taxes and Levies (RoSCTL).
- Under this scheme, the **exporters are issued a Duty Credit Scrip for the value of embedded taxes and levies** contained in the exported product.



- Exporters can use this scrip to pay basic Customs duty for the import of equipment, machinery or any other input
- Statement 2 - Incorrect, the scheme was notified by **Ministry of Textiles in 2019**.
- Statement 3 - Incorrect, at present, the RoSCTL scheme is **applicable only to the exporters of apparel and made-ups**.
- Continuation of RoSCTL for Apparel/Garments and Made-ups is expected to make these products globally competitive by rebating all embedded taxes/levies which are currently not being rebated under any other mechanism.

Q.8) With reference to 'Commission for Air Quality Management', consider the following statements

1. It is an executive body established as an overarching body to carry out air quality management in Delhi NCR
2. Directions issued by the commission can only be contested before the National Green Tribunal
3. The rulings by the commission on air pollution will override anything contained in any other law.

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 (b)

Explanation:

- Statement 1 - Incorrect, **CAQM is a statutory Body** that regulates the process by coordinating between the Central Government and the states concerned.
- Statement 2 - Correct, the Act further says that **no civil court will have jurisdiction to entertain any suit**, proceeding or dispute pertaining to or arising out of the actions taken or directions issued by the commission and that orders of the commission can only be contested before the **National Green Tribunal**.
- Statement 3 - Correct, the Commission is the most powerful air pollution monitoring body set up by the Centre to date.



- The **rulings by the commission on air pollution will override anything contained in any other law.**
- The powers of the commission will also supersede that of any other body in matters of air pollution.
- Therefore, in cases where conflict may arise between orders or directions issued by the other state governments, state pollution control boards or even the Central Pollution Control Board, the orders of the commission will prevail

Q.9) Consider the following statements about N-Treat technology

1. N-Treat Technology is developed by Indian Institute of Technology-Bombay
2. It is a seven-stage process for waste treatment
3. It is a natural and environment friendly way for sewage treatment

Choose the correct statements:

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

Q.9) Solution (a)

Explanation:

- Statement 1 - Correct, Brihanmumbai Municipal Corporation (BMC) has planned in-situ treatment of sewage from the drains. This will be done with the help of **Indian Institute of Technology-Bombay's (IIT-B) N-Treat Technology**
- Statement 2 - Correct, **N-Treat is a seven-stage process for waste treatment** that uses screens, gates, silt traps, curtains of coconut fibres for filtration, and disinfection using sodium hypochlorite
- Statement 3 - Correct, according to the detailed project report for N-Treat, a copy of which is available on the civic body's website, it is a natural and environment friendly way for sewage treatment.
- It's set up takes place within the nullah channels that is through the in-situ or on-site method of treatment, and does not require additional space.

Q.10) 'Snake Island' seen in news frequently lies in

- a) Black Sea
- b) South China Sea

- c) Mediterranean Sea
- d) Baltic Sea

Q.10) Solution (a)

Explanation:

- Snake Island, also known as **Serpent Island or Zmiinyi Island**, is an island belonging to **Ukraine located in the Black Sea**, near the Danube Delta, with an important role in delimiting Ukrainian territorial waters.
- On 24 February 2022, two Russian navy warships attacked and captured Snake Island. It was since heavily bombarded by Ukraine

Q.11) With reference to 'Lisbon Declaration', consider the following statements

1. It aims to protect biodiversity in areas beyond national jurisdiction
2. The theme of the declaration is 'Our Ocean, Our Future: call for action'

Select the correct statement(s)

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

Q.11) Solution (a)

Explanation:

- Statement 1 – Correct, It aims to **protect biodiversity in Areas Beyond National Jurisdiction**, which lie outside the 200-mile (322-kilometre) exclusive economic zones of countries.
- Statement 2 – Incorrect, The Ocean Conference adopted the declaration entitled "**Our Ocean, Our Future, Our Responsibility**" as the outcome document, and recommends that the General Assembly endorse it, at its 76th session.

Q.12) 'TiHAN' a testbed which was launched recently is related to

- a) Semi-conductors



- b) Financial technology
- c) Autonomous Navigation
- d) Digital currency

Q.12) Solution (c)

Explanation:

The “**Technology Innovation Hub on Autonomous Navigation**” is a multidisciplinary initiative, which will make India a global player in the futuristic and next generation “**Smart Mobility technology**”. In India, there is presently no such testbed facility for assessing autonomous vehicle performance, and hence the need for this TiHAN Testbed

Q.13) Consider the following statements regarding ‘The State of Food Security and Nutrition in the World (SOFI) 2022’

1. The gender gap in food insecurity is rising although Global hunger has decreased
2. Food and Agriculture organization and World Food Programme are associated with this report

Select the INCORRECT statement(s)

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

Q.13) Solution (a)

Explanation:

- Statement 1 – Incorrect, **The gender gap in food insecurity has continued to rise in 2021** — 31.9 per cent of women in the world were moderately or severely food insecure, compared with 27.6 per cent of men. **Global hunger numbers rose to as many as 828 million in 2021 ,an increase of 46 million on the previous year** and an increase of 150 million people since the start of the COVID-19 pandemic
- Statement 2 – Correct, **FAO, International Fund for Agriculture Development, UNICEF, UN world food Programme and WHO have jointly released SOFI 2022.**



Q.14) Consider the following statements regarding Dark energy and Dark matter

1. Dark energy is distributed evenly throughout the universe
2. Dark matter is a hypothetical form of matter constituting major part of the universe
3. The XENON1T is a dark matter research project operated by NASA

Select the correct statement(s)

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

Q.14) Solution (a)

Explanation:

- Statement 1 – Correct, **Dark energy makes up approximately 68% of the universe** and appears to be associated with the vacuum in space. It is **distributed evenly throughout the universe**, not only in space but also in time – in other words, its effect is not diluted as the universe expands. The even distribution means that dark energy does not have any local gravitational effects, but rather a global effect on the universe as a whole.
- Statement 2 – Incorrect, The total mass-energy content of the universe contains **5% ordinary matter and energy, 27% dark matter, and 68% of a form of energy known as dark energy.**
- Statement 3 – Incorrect, XENON1T was **operated deep underground at the INFN Laboratori Nazionali del Gran Sasso in Italy.** It is a deep underground research facility featuring increasingly ambitious experiments aiming to detect dark matter particles. It is **not related to NASA.**

Q.15) Consider the following statements with respect to 'India Rankings 2022 for Higher Educational Institutes'

1. This is the first time the ranking parameters included 'Innovation and Entrepreneurship'
2. The report released by Ministry of Education is based on the methodology of National Institutional Ranking Framework



3. Outreach and Inclusivity has the highest weightage in the NIRF used to rank Higher Educational Institutions

Choose the correct statement(s) using the code given below

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

Q.15) Solution (b)

Explanation:

- Statement 1 – Incorrect, **From next year NIRF ranking categories will also include Innovation and Entrepreneurship**. NIRF rankings categories can be increased as per the needs.
- Statement 2 – Correct, **The National Institutional Ranking Framework (NIRF) is a methodology adopted by the Ministry of Education**, Government of India, to rank institutions of higher education in India.
- Statement 3 – Incorrect, **Teaching, Learning and Resources and Research and Professional Practice have the highest weightage in NIRF (0.3)**. Outreach and Inclusivity and Perception have the lowest weightage (0.1). Graduation outcomes have 0.2 weightage.

Q.16) Which Biosphere Reserve encompasses Shendurney Wildlife Sanctuary, Peppara Wildlife Sanctuary, Neyyar Wildlife Sanctuary

- a) Agasthyamalai Biosphere Reserve
- b) Nilgiri Biosphere Reserve
- c) Seshachalam Biosphere Reserve
- d) Gulf of Mannar Biosphere Reserve

Q.16) Solution (a)

Explanation:



- The **Agasthyamala Biosphere Reserve** is a biosphere reserve in India established in 2001, located in the **southernmost end of the Western Ghats** and includes 3,500.36 km² (1,351.50 sq mi) of which 1828 km² is in Kerala and 1672.36 km² is in Tamil Nadu.
- It encompasses the following wildlife sanctuaries: **Shendurney Wildlife Sanctuary, Peppara Wildlife Sanctuary, Neyyar Wildlife Sanctuary, and Kalakkad Mundanthurai Tiger Reserve**. Agasthyamalai Biosphere Reserve became part of World Network of Biosphere Reserves in 2016.

Q.17) With reference to 'Global Gender Gap Index', consider the following statements

1. It is a report released by World Economic Forum
2. Only Finland, Norway and Sweden have achieved gender parity according to the report
3. India ranks highest in the 'Educational Attainment' sub-index relative to her ranking

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.17) Solution (a)

Explanation:

- Statement 1 – Correct, The **Global Gender Gap Index** is released by the **World Economic Forum**.
- Statement 2 – Incorrect, although **no country achieved full gender parity**, the top 10 economies closed at least 80% of their gender gaps, with **Iceland (90.8%) leading the global ranking. Iceland is followed by Finland (86%, 2nd), Norway (84.5%, 3rd)**
- Statement 3 – Incorrect, Educational Attainment sub-index includes metrics such as literacy rate and the enrolment rates in primary, secondary and tertiary education. Here India ranks 107th out of 146. **Political Empowerment sub-index includes metrics such as the percentage of women in Parliament, the percentage of women in ministerial positions** etc. Of all the sub-indices, **this is where India ranks the highest (48th out of 146)**.

Q.18) Consider the following statements regarding 'C40 Cities Climate Leadership Group'

1. It is an initiative of United Nations Environment Program



2. C40 offers membership only to megacities which are willing to become climate positive

Select the correct statement(s)

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

Q.18) Solution (d)

Explanation:

- **Statement 1 – Incorrect,** C40 started in October 2005 when London Mayor Ken Livingstone convened representatives from 18 megacities to forge an agreement on cooperatively reducing climate pollution and created the 'C20'. In 2006, **Mayor Livingstone and the Clinton Climate Initiative (CCI)—led by the efforts of former U.S. President Bill Clinton—combined to strengthen both organizations,** bringing the number of cities in the network to 40 and helping to deliver projects and project management for participating cities to further enhance emissions reductions efforts. It is **not an initiative of UNEP.**
- **Statement 2 – Incorrect,** While C40 originally targeted megacities for their greater capacity to address climate change, **C40 now offers three types of membership categories to reflect the diversity of cities taking action to address climate change.** The categories consider such characteristics as population size, economic output, environmental leadership, and the length of a city's membership. The three types are **Megacities, Innovator cities, Observer cities**

Q.19) Consider the following statements with respect to 'National Coal Index'

1. Prices of coal from all the sales channels of coal including import as existing today are taken into account for compiling the NCI\\
2. It is a price index which reflects the change of price level of coal in a particular year relative to the fixed base year
3. There exists separate indices for coking and non-coking coal under NCI

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.19) Solution(c)

Explanation:

- **Statement 1 – Correct, Prices of coal from all the sales channels of coal, including import, as existing today are taken into account** for compiling the NCI. The amount of revenue share per tonne of coal produced from auctioned blocks would be arrived at using the NCI by means of defined formula.
- **Statement 2 – Incorrect, It is a price index which reflects the change of price level of coal in a particular month relative to the fixed base year.** The base year for the NCI is Financial Year 2017-18.
- **Statement 3 – Correct, NCI is composed of a set of five sub-indices: Three for Non Coking Coal and two for Coking Coal.** The three sub-indices for Non Coking Coal are combined to arrive at the Index for Non Coking Coal and the two sub-indices for Coking Coal are combined to arrive at the Index for Coking Coal.

Q.20) With reference to 'National Action Plan for Mechanized Sanitation Ecosystem- NAMASTE scheme', consider the following statements

1. The scheme aims to achieve zero fatalities in sanitation work in India
2. It is a joint venture of Ministry of Social Justice and Ministry of Health and Family Welfare

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)

Explanation:

- Statement 1 – Correct, The **scheme aims** to achieve outcomes like: **Zero fatalities in sanitation work in India , No sanitation workers come in direct contact with human faecal matter ,All Sewer and Septic tank sanitation workers have access to alternative livelihoods**



- Statement 2 – Incorrect, The scheme is a joint venture of **Department of Drinking Water and Sanitation, Ministry of Social Justice and Empowerment and the Ministry of Housing and Urban Affairs.**

Q.21) Consider the following statements about Mission Amrit Sarovar

1. The Mission is aimed at developing and rejuvenating 75 water bodies in each district of the country.
2. Bhaskaracharya National Institute for Space Application and Geo-informatics (BISAG-N) is the technical partner for the Mission.
3. NITI Aayog is the implementing agency at the State Level.

Choose the correct statements:

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

Q.21) Solution (a)

Explanation:

- With a view to conserve water for the future, the Prime Minister launched a new Mission on Amrit Sarovar on 24th April 2022. The Mission is aimed at developing and **rejuvenating 75 water bodies** in each district of the country as a part of celebration of Azadi ka Amrit Mahotsav. In total, it would lead to creation of 50,000 water bodies of a size of about an Acre or more. **Hence, statement 1 is correct.**
- **Bhaskaracharya National Institute for Space Application and Geoinformatics (BISAG-N)** has been engaged as Technical partner for the Mission. **Hence, statement 2 is correct.**
- The Mission works through the States and Districts, through refocusing of various schemes such as Mahatma Gandhi NREGS, XV Finance Commission Grants, PMKSY sub schemes such as Watershed Development Component, Har Khet Ko Pani besides States' own schemes.
- This Mission has been **launched with a whole of Government Approach in which 6 Ministries/Department** namely Dept of Rural Development , Department of land resources, Department of Drinking Water and Sanitation, Department of Water resources, Ministry of Panchayati Raj, Ministry of Forest, Environment and Climate changes. **Hence, statement 3 is not correct.**



Source: <https://pib.gov.in/PressReleasePage.aspx?PRID=1847398>

Q.22) Consider the following statements about Small Satellite Launch Vehicle (SSLV)

1. It is a launch vehicle designed to orbit satellites weighing less than 500kg in Low Earth Orbit.
2. It is a 2 stage rocket configured with 2 Solid Propulsion Stages and liquid propulsion based Velocity Trimming Module as a terminal stage

Choose the incorrect statements:

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

Q.22) Solution (b)

Explanation:

- SSLV is a **rocket** that is designed to orbit satellites weighing less than **500kg in Low Earth Orbit and 300 kg to Sun Synchronous Orbit (SSO)**. Hence, **statement 1 is correct**.
- SSLV is the **smallest vehicle** at 110-ton mass at ISRO.
- It will take only 72 hours to integrate, unlike the 70 days taken now for a launch vehicle.
- The other features include: flexibility in accommodating multiple satellites, Launch on demand feasibility, minimal launch infrastructure requirements, etc.
- It is a **3 stage Launch Vehicle** configured with three Solid Propulsion Stages and liquid propulsion-based Velocity Trimming Module (VTM) as a terminal stage. Hence, **statement 2 is not correct**.

Source: <https://indianexpress.com/article/explained/explained-sci-tech/india-sslv-rocket-launch-isro-explained-8075712/>

Q.23) Consider the following statements with respect to Indian Virtual Herbarium

1. The portal aims to provide information on the rich floral & faunal diversity of India through online access.
2. It was developed by the Botanical Survey of India (BSI).

Choose the correct statements:



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

Q.23) Solution (b)

Explanation:

- It aims to provide complete information on herbarium specimens about the floral diversity of India and other countries stored in the cabinet of the herbarium building through online access.
- The database created is the largest storage of information **about plant diversity** in India. **Hence statement 1 is not correct.**
- It was developed by the scientists of the Botanical Survey of India (BSI). **Hence statement 2 is correct.**
- At present, the digital herbarium of the Botanical Survey of India has four categories – Cryptogam type specimens, Cryptogams general specimens, Phanerogam type specimens, and Phanerogams general specimens.
- It will also aid the research studies and provide valuable insight for global plant research.
- Each record in the digital herbarium includes an image of the preserved plant specimen, scientific name, collection locality, and collection date, collector name, and barcode number.

Source: <https://www.thehindu.com/news/national/indian-virtual-herbarium-biggest-database-of-countrys-flora-grabbing-eyeballs-across-the-world/article65737063.ece>

Q.24) Consider the following statements about Criminal Procedure (Identification) Act, 2022

1. The Act empowers the authorities to collect physical and biological samples of the person detained under any preventive detention law.
2. Refusal to give data is considered an offence under the act.
3. The National Crime Records Bureau is the central agency to maintain the records of collected samples.

Choose the correct statements:

- a) 1 and 2
- b) 2 and 3



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

Q.24) Solution (c)

Explanation:

Criminal Procedure (Identification) Act, 2022 expands:

- the type of data that may be collected,
- persons from whom such data may be collected, and the authority that may authorise such collection.

Persons whose data may be collected:

- Convicted or arrested for any offence. However, biological samples may be taken forcibly only from persons arrested for offences against a woman or a child, or if the offence carries a minimum of seven years imprisonment
- Persons detained under any preventive detention law
- On the order of Magistrate, from any person (not just an arrested person) to aid investigation

Hence, statement 1 is correct.

- Under the act, **resistance or refusal to give data will be considered an offence** of obstructing a public servant from doing his duty. **Hence, statement 2 is correct.**
- The **National Crime Records Bureau (NCRB)** will be the central agency to maintain the records.
- It will share the data with law enforcement agencies. Hence, statement 3 is correct.

Source: [https://www.thehindu.com/news/national/explained-what-is-the-criminal-procedure-identification-act-2022/article65757554.ece#:~:text=THE%20GIST-,%20The%20Criminal%20Procedure%20\(Identification\)%20Act%2C%202022%20provides%20legal%20sanction,and%20investigation%20of%20criminal%20matters%E2%80%9D.](https://www.thehindu.com/news/national/explained-what-is-the-criminal-procedure-identification-act-2022/article65757554.ece#:~:text=THE%20GIST-,%20The%20Criminal%20Procedure%20(Identification)%20Act%2C%202022%20provides%20legal%20sanction,and%20investigation%20of%20criminal%20matters%E2%80%9D.)

Q.25) Consider the following statements about Minerals Security Partnership

1. It is an initiative led by USA to secure supply chains of critical minerals, aimed at reducing dependency on China.
2. The members of the initiative include India, USA, Australia, Germany, France, and the African Union.



3. The grouping focuses on the supply chains of minerals such as Cobalt, Nickel, Lithium, and the 17 rare earth minerals.

Choose the incorrect statements:

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

Q.25) Solution (c)

Explanation:

- It is an ambitious new **US-led partnership to secure supply chains** of critical minerals, aimed at reducing dependency on China. **Hence statement 1 is correct.**
- **India is not part of the grouping. Hence statement 2 is not correct.**
- Besides the US, the MSP includes Australia, Canada, Finland, France, Germany, Japan, the Republic of Korea, Sweden, the United Kingdom, and the European Commission.
- **The new grouping, industry insiders say, could focus on the supply chains of minerals such as Cobalt, Nickel, Lithium, and also the 17 “rare earth” minerals.**
- While Cobalt, Nickel, and Lithium are required for batteries used in electric vehicles, rare earth minerals are critical, in trace amounts, in semiconductors and high-end electronics manufacturing. Hence statement 3 is correct.
- This new alliance is seen as being primarily focused on evolving an alternative to China, which has created processing infrastructure in rare earth minerals and has acquired mines in Africa for elements such as cobalt.

Source: <https://indianexpress.com/article/india/11-nation-grouping-concern-delhi-us-led-critical-minerals-alliance-8069212/>

Q.26) Which of the below given pairs is/are incorrectly matched?

Wetland	State
Vellode Bird Sanctuary	Kerala
Satkosia Gorge	Odisha
Sirpur wetland	Karnataka
Nanda Lake	Tamil Nadu



Choose the correct code:

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

Q.26) Solution (c)

Explanation:

India adds 10 more wetlands designated as Ramsar sites to make total 64 sites covering an area of 12,50,361 ha in the country. The 10 new sites include: Six (6) sites in Tamil Nadu and One (1) each in Goa, Karnataka, Madhya Pradesh and Odisha.

- **Tamil Nadu** - Koonthankulam Bird Sanctuary, Gulf of Mannar Marine Biosphere Reserve, Vembannur Wetland Complex, Vellode Bird Sanctuary, Vedanthangal Bird Sanctuary and Udhayamarthandapuram Bird Sanctuary
- **Odisha** - Satkosia Gorge
- **Goa** - Nanda Lake
- **Kerala** - Vembannur Wetland Complex
- **Karnataka** - Ranganathittu Bird Sanctuary
- **Madhya Pradesh** - Sirpur wetland

Source: [CLICK HERE](#)

Q.27) Consider the following statements

1. Cotton leaf curl disease (CLCuD) is a bacterial disease of plants caused by whitefly attacks.
2. The leaves of infected cotton curl both upward and downward.

Choose the incorrect statements:

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

Q.27) Solution (a)

Explanation:



- CLCuD is a **viral disease** that affects the overall growth of the cotton plant and hits its yield. **Hence statement 1 is not correct.**
- **Leaves of infected cotton curl both upward and downward. Hence statement 2 is correct.**
- Though farmers are doing recommended sprays, the sprays are not 100 percent effective to control the disease.
- When whiteflies attack the crop, the CLCuD is expected because they transmit the virus further.

Source: [CLICK HERE](#)

Q.28) Consider the following statements about Jan Samarth Portal

1. It provides a common platform for availing loan under certain credit-linked Government schemes.
2. It connects all stakeholders like beneficiaries, financial institutions, Government Agencies on a common platform.
3. Aadhaar number is the only document required to avail benefits under any scheme .

Choose the correct statements:

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

Q.28) Solution (c)

Explanation:

Jan Samarth Portal

- Applicants can access 13 credit linked Government Schemes catering to youth, students, entrepreneurs and farmers viz. Education Loans, Agriculture Loans, Business Activity Loans, and Livelihood Loans. **It provides a common platform for availing loan under certain credit-linked Government schemes. Hence statement 1 is correct.**
- It **connects all stakeholders** like beneficiaries, financial institutions, Central/State Government Agencies, and Nodal Agencies on a common platform. **Hence statement 2 is correct.**
- Each scheme has different Documentation requirement. To apply online on the portal, the basic documents required would be **Aadhaar number, PAN, Bank statements etc. Hence statement 3 is not correct.**



Source: [CLICK HERE](#)

Q.29) Consider the following statements about SMILE-75 Initiative

1. Under the initiative, 75 identified Municipal Corporations will undertake comprehensive rehabilitation of persons engaged in the act of begging.
2. It is being implemented by Ministry of Housing and Urban Affairs.
3. The financial assistance of Rs. 1000 is provided by the central government under the initiative to each beneficiary for the period of 3 years.

Choose the incorrect statements:

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

Q.29) Solution (b)

Explanation:

- In the spirit of **AzadikaAmritMahotsav**, the **Ministry of Social Justice & Empowerment, Government of India**, has identified **75 Municipal Corporations to implement comprehensive rehabilitation of persons engaged in the act of begging under “SMILE: Support for Marginalised Individuals for Livelihood and Enterprise”** named as “SMILE75 Initiative”. **Hence statement 1 is correct and statement 2 is incorrect.**
- Under the SMILE-75 initiative, seventy five (75) Municipal Corporations in collaboration with NGOs and other stakeholders will cover several comprehensive welfare measures for persons who are engaged in the act of begging with focus extensively on rehabilitation, provision of medical facilities, counselling, awareness, education, skill development, economic linkages and convergence with other Government welfare programmes etc. **There is no monetary provisions in the scheme. Hence statement 3 is not correct.**

Source: [CLICK HERE](#)

Q.30) Consider the following statements about PeVatrons

1. They are the source of the highest energy particles that flow across the Milky Way galaxy.



2. They consist of protons and also include atomic nuclei.

Choose the correct statements:

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

Q.30) Solution (c)

Explanation:

PeVatrons

- They are the **source of some of the highest energy particles that whip across our galaxy. Hence statement 1 is correct.**
- Streams of particles called cosmic rays travel at breakneck speeds around our galaxy and strike our planet's atmosphere.
- They **typically consist of protons but also include atomic nuclei and electrons.** Hence statement 2 is correct.
- They **all carry an electric charge**, meaning their paths deviate and scramble as they go through our galaxy's magnetic field.
- This means that we cannot track the direction they originally came from, which effectively masks their birthplace.
- However, when the particles that are part of the cosmic rays collide with the gas near supernova remnants, they produce gamma rays.
- These are some of the **highest energy forms of radiation that exist.**

Source: [CLICK HERE](#)

Q.31) Consider the following statements about National Integrated Database on Arrested Narc-offenders (NIDAAN) Portal

1. It is a database of arrested narcotics offenders, developed by the Narcotics Control Bureau, under the aegis of the Ministry of Home Affairs.
2. The NIDAAN platform sources its data from the inter-operable criminal justice system (ICJS) and the e-Prisons repository.
3. The ICJS, an initiative of the Supreme Court e-committee, was created to enable seamless transfer of data among criminal justice system.



Choose the correct statements:

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

Q.31) Solution (d)

Explanation:

NIDAAN Platform

- A first-of-its kind database of arrested narcotics offenders has been made operational for use.
- The portal, **NIDAAN or the National Integrated Database on Arrested Narco-offenders, has been developed by the Narcotics Control Bureau (NCB).**
- It is part of the narcotics coordination mechanism (**NCORD**) portal that was launched by **Union Home Minister. Hence statement 1 is correct.**
- The **NIDAAN platform sources its data from the ICJS (inter-operable criminal justice system) and the e-Prisons (a cloud-based application) repository. Hence statement 2 is correct**
- It is planned to integrate it in the future with the crime and criminal tracking network system or CCTNS.
- The **ICJS, an initiative of the Supreme Court e-committee**, was created to enable seamless transfer of data and information among different pillars of the criminal justice system, like courts, police, jails and forensic science laboratories, from one platform. **Hence statement 3 is correct.**
- Any agency can search for the crime history, personal details, fingerprints, court cases and appeals made etc. with regard to a drug offender from any part of the country.
- A distinct feature called 'criminal network' on the portal can also be accessed by agencies, as part of which specific links of an accused to other crimes, linked police FIRs and those who visited them in jail can also be accessed.

Source: [CLICK HERE](#)

Q.32) Consider the following statements

1. Bioplastics are made from corn, sugar, vegetable oils, and other renewable materials.



2. Polyhydroxyalkanoates (PHA) are manufactured using microorganisms that ferment with canola oil.
3. Stitches to treat wounds are made of a bioplastic thread that harmlessly dissolves into the body.

Choose the incorrect statements:

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

Q.32) Solution (d)

Explanation:

- Bioplastics are plastic materials **produced from renewable biomass sources**, such as vegetable fats and oils, corn starch, straw, woodchips, sawdust, recycled food waste, etc.
- **Polyhydroxyalkanoates or PHAs** are an emerging class of bioplastics in the latter category, i.e. they are bio-based and biodegradable.
- **Polyhydroxyalkanoates (PHA)** are manufactured using microorganisms that ferment with canola oil.
- Polylactic acid or polylactide (PLA) is a polyester derived from renewable biomass, typically from fermented plant starch, such as corn, cassava, sugarcane, or sugar beet pulp.
- **Bioplastics have long been used in medical applications.**
- For example, stitches are often made of a bioplastic thread that harmlessly dissolved into the body.

Source: [CLICK HERE](#)

Q.33) Consider the following statements

1. Nuclear Command Authority (NCA) is India's nodal authority responsible for command, control and operational decisions regarding India's nuclear weapons programme.
2. The Executive Council of NCA is chaired by Prime Minister of India and it authorises a nuclear attack if need be.
3. The strategic forces command (SFC) is in charge of the nuclear forces' administration and would be in charge of firing nuclear weapons.

Choose the incorrect statements:



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

Q.33) Solution (c)

Explanation:

- **Nuclear Command Authority (NCA) is India's nodal authority** responsible for command, control and operational decisions regarding India's nuclear weapons programme. **Hence statement 1 is correct.**
- It has **Executive Council and Political Council.**
- The **Executive Council is chaired by the National Security Adviser (NSA).**
- It gives inputs to the Political Council, which authorises a nuclear attack if need be.
- The Political Council is chaired by the Prime Minister and is advised by the Executive Council. **Hence statement 2 is not correct.**
- The NCA's directives are executed by the **Strategic Forces Command.**
- The strategic forces command (SFC) would be in charge of the nuclear forces' administration and would be in charge of firing nuclear weapons. Hence statement 3 is correct.

Source: [CLICK HERE](#)

Q.34) Consider the following statements about Aranmula mirror

1. It is from the State of Kerala and is the first ever product to receive GI tag from the State.
2. The uniqueness of this mirror is its front reflection, unlike the back reflection in normal glass mirrors.

Choose the correct code:

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

Q.34) Solution (c)

Explanation:

Aranmula mirror (rare metal alloy mirror)

- It 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.
- The alloy formula they use is a secret passed down through generations.
- 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.
- A first-surface mirror or front-surface mirror is a mirror with the reflective surface being above a backing.
- First-surface mirrors are made for applications requiring a strict reflection without a ghosting effect.
- Reflecting telescopes, rear-projection televisions, periscopes, non-reversing mirrors, high-quality kaleidoscopes, and the animation process Spectrafocus use this type of mirror.
- These mirrors also have a cultural significance in Kerala, they are regarded as one of the eight auspicious objects (ashtamangalya) displayed during religious festivals or auspicious occasions and ceremonies.

Source: [CLICK HERE](#)

Q.35) Consider the following statements

1. The Vice President (VP) is the second highest constitutional office in India.
2. The Electoral College of the VP consists of both elected and nominated members from Lok Sabha and Rajya Sabha.
3. VP can be removed from his office by a resolution raised only in Rajya sabha and passed by effective majority by Lok Sabha.

Choose the correct statements:

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

Q.35) Solution (a)



Explanation:

- The **Vice President is the second highest constitutional office** in India. The Vice President is the ex-officio Chairperson of the Council of States/Rajya Sabha. **Hence statement 1 is correct.**
- As per **Article 66** of the Constitution of India, the Vice-President is elected by the members of the Electoral College.
- He is elected in accordance with the system of proportional representation by means of the single transferable vote and the voting at such election shall be by secret ballot

Electoral College consists of:

- **Elected and nominated members from Lok Sabha and Rajya Sabha only. Hence statement 2 is correct.**

Removal of Vice-president

- A formal impeachment like in the case of the President of India is not required for the removal of Vice-President
- VP can be removed from his office by a resolution raised only in Rajya sabha, passed by effective majority & agreed upon by simple majority in Lok sabha.
- Prior to passing the resolution in Rajya sabha, a 14 days notice should be served to the Vice President.

Source: [CLICK HERE](#)

Q.36) Consider the following statements

1. Anang Tal is a manmade lake located in Delhi and is a monument of national importance.
2. The lake was built by Prithviraj Chauhan the Tomar King on the event of his coronation as a King.

Choose the correct statements:

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

Q.36) Solution (a)

Explanation:

- **Anang Tal lake declared monument of national importance** through a gazette notification by the Ministry of Culture.
- The lake is situated in **Mehrauli, Delhi** and is claimed to be created by **Tomar King, Anangpal II**, in 1,060 AD. **Hence statement 1 is correct and statement 2 is not correct.**
- Anangpal II, popularly known as Anangpal Tomar, belonged to the Tomar dynasty.
- He was the founder of **Dhillika Puri**, which eventually became Delhi.
- He had built the city from ruins and under his supervision, Anang Tal Baoli and Lal Kot were constructed.
- Anangpal Tomar II was **succeeded by his grandson Prithviraj Chauhan.**
- Delhi Sultanate was established in 1192 after Prithviraj Chauhan's defeat in the Battle of Tarain (present-day Haryana) by the Ghurid forces.

Source: [CLICK HERE](#)

Q.37) Consider the following statements about Pen-Plus Strategy

1. It is a joint initiative of the Ministry of Health and Family Welfare and the Ministry of Women and Child Development.
2. It is a strategy to boost access to the diagnosis, treatment and care of severe non-communicable diseases (NCD).

Choose the incorrect statements:

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

Q.37) Solution (a)

Explanation:

Pen-Plus Strategy

- **Africa has adopted a new strategy to boost access to the diagnosis, treatment and care of severe non-communicable diseases (NCD). Hence statement 1 is not correct.**
- It is a **regional strategy** to address severe non-communicable diseases at first-level referral health facilities.
- The strategy is aimed at bridging the access gap in **treatment and care of patients with chronic and severe NCDs. Hence statement 2 is correct.**



- Health ministers of African countries endorsed the plan at the 72nd session of the World Health Organization (WHO) Regional Committee for Africa in Lome, Togo to reduce premature mortality from NCDs.
- NCDs include heart diseases, cancers, diabetes, and asthma among others.
- Globally, NCDs are the main cause of morbidity and mortality.
- Severe non-communicable diseases are those chronic conditions that lead to high levels of disability and death among children, adolescents and young adults if left undiagnosed or untreated.
- In Africa, the most prevalent, severe non-communicable diseases include sickle-cell disease, type 1 and insulin-dependent type 2 diabetes, rheumatic heart disease, severe hypertension and moderate to severe and persistent asthma.

Source: [CLICK HERE](#)

Q.38) Consider the following statements

1. INS Vikrant is India's first indigenous aircraft carrier and the largest warship to have ever been built in India.
2. At present, India has only one aircraft carrier, INS Vikramaditya, which is built on a Russian platform.
3. INS Vikrant is built by India's state-run Cochin Shipyard Limited (CSL).

Choose the correct statements:

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

Q.38) Solution (c)

Explanation:

INS Vikrant Aircraft Carrier

- **It is India's first indigenous aircraft carrier and the largest warship to have ever been built in India. Hence statement 1 is correct.**
- **INS Vikrant is built by India's state-run Cochin Shipyard Limited (CSL). Hence statement 3 is correct.**



- With the construction of 'Vikrant', India has joined a select group of nations such as the US, the UK, Russia, China and France, having the niche capability to indigenously design and build an aircraft carrier.
- The INS Vikrant has over 2,300 compartments, designed for a crew of around 1,700 people, including specialised cabins to accommodate women officers.
- Vikrant has a top speed of around 28 knots and a cruising speed of 18 knots with an endurance of about 7,500 nautical miles.
- The warship is 262 metres long, 62 metres wide and it has a height of 59 metres.
- India has had aircraft carriers earlier too, but those were built either by the British or the Russians.
- **Currently, India operates two aircraft carriers – Russian-built INS Vikramaditya and indigenously built INS Vikrant, a 40,000 tonne. Hence statement 2 is not correct.**

Source: [CLICK HERE](#)

Q.39) Consider the following statements about Battery Waste Management Rules, 2022

1. The importers of batteries are responsible for collection and recycling/refurbishment of waste batteries.
2. The rules enable setting up a centralized online portal for exchange of Extended Producer Responsibility (EPR) certificates.
3. On the principle of Polluter Pays Principle, environmental compensation will be imposed for non-fulfilment of EPR targets

Choose the correct statements:

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

Q.39) Solution (c)

Explanation:

- The rules function based on the concept of Extended Producer Responsibility (EPR) where the producers (**including importers**) of batteries are responsible for collection and recycling/refurbishment of waste batteries and use of recovered materials from wastes into new batteries. **Hence statement 1 is correct.**



- The rules will enable setting up a mechanism and **centralized online portal for exchange of EPR certificates** between producers and recyclers/refurbishers to fulfil the obligations of producers. **Hence statement 2 is correct.**
- The rules promote setting up of new industries and entrepreneurship in collection and recycling/refurbishment of waste batteries.
- On the principle of **Polluter Pays Principle**, Environmental compensation will be imposed for nonfulfilment of Extended Producer Responsibility targets, responsibilities and obligations set out in the rules. **Hence statement 3 is correct.**
- The funds collected under environmental compensation shall be utilised in collection and refurbishing or recycling of uncollected and nonrecycled waste batteries.

Source: [CLICK HERE](#)

Q.40) Consider the following statements about Bisphenol-A (BPA)

1. It is a colourless solid which is soluble in organic solvents, but poorly soluble in water.
2. It is used in the process of manufacturing polycarbonates plastics and epoxy resins as a plasticizer.
3. BPA is a known as endocrine disruptor.

Choose the correct statements:

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

Q.40) Solution (d)

Explanation:

- Bisphenol A (BPA) is a chemical compound primarily used in the manufacturing of various plastics. It is a **colourless solid** which is **soluble in most common organic solvents**, but has very poor solubility in water. **Hence statement 1 is correct.**
- BPA's largest single application is as a comonomer in the **production of polycarbonates**, which accounts for 65-70% of all BPA production.
- The **manufacturing of epoxy resins and vinyl ester resins** account for 25–30% of BPA use. **Hence statement 2 is correct.**
- BPA can also be found in breast milk.
- BPA is a known **endocrine disruptor**. **Hence statement 3 is correct.**



- Generally, BPA acts on hormonal level by distorting hormonal balance and inducing estrogenic effects through binding with estrogen related receptors (ERR).
- The resultant effects are numerous of which hormonal related abnormalities have been mostly reported.

Source: [CLICK HERE](#)

Q.41) Consider the following statements about Manthan platform recently seen in news

1. It is an initiative of The Office of the Principal Scientific Adviser (PSA) to the Government of India (GoI)
2. It is an India's exclusive platform for driving R&D collaboration at scale and achieving India's scientific missions and UN SDGs.

Choose the incorrect statement:

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

Q.41) Solution (d)

Explanation:

- The **Office of the Principal Scientific Adviser (PSA) to the Government of India (GoI)**; entrusted with the vision to enable and empower all spheres of science and technology within the country, announced the launch of the Manthan platform. **Hence statement 1 is correct.**
- Led by the Office of PSA, Manthan can potentially change the landscape of science and technology-based social impact innovation and solutions in India.
- Manthan is **India's exclusive platform for driving R&D collaboration at scale and achieving India's scientific missions and UN SDGs. Hence statement 2 is correct.**
- Manthan platform, aims to promote collaboration at scale between industry and the scientific research and development ecosystem to help meet India's sustainability goals in alignment with the UN defined Sustainable Development Goals (SDG) charter.

Source: [CLICK HERE](#)



Q.42) Consider the following statements about Central Consumer Protection Authority

1. CCPA is a regulatory body established in 2020 based on the provisions of the Consumer Protection Act, 2019.
2. CCPA has suo motu powers to inquire or investigate into matters relating to violations of consumer rights or unfair trade practices.
3. The composition of CCPA includes a Chief Commissioner as head, and only two other commissioners as members.

Choose the correct statements:

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

Q.42) Solution (a)

Explanation:

- CCPA is a **regulatory body established in 2020 based on the provisions of the Consumer Protection Act, 2019. Hence statement 1 is correct.**
- CCPA works under the administrative control of the **Ministry of Consumer Affairs.**
- The objective of the Central Consumer Protection Authority (CCPA) is to promote, protect and enforce the rights of consumers as a class.
- Powers: The CCPA will have the powers to inquire or investigate into matters relating to violations of consumer rights or unfair trade practices suo motu, or on a complaint received, or on a direction from the central government. **Hence statement 2 is correct.**

Central Consumer Protection Authority shall consist of following members appointed by Central Government.

- **Chief Commissioner**
- **Two Commissioners. One commissioner each will represent for goods and services. Hence statement 3 is correct.**

Source: [CLICK HERE](#)

Q.43) 'NIPAM', an initiative of the Government of India, aims at?



- a) Imparting Intellectual Property (IP) awareness and basic training to 1 million students
- b) Providing affordable and quality education to the citizens for free
- c) To conduct Biogeochemical and climate change research in polar and cryosphere regions.
- d) Providing financial and technical assistance to start-up entrepreneurs to find innovative solutions to plastic pollution problem

Q.43) Solution (a)

Explanation:

- National Intellectual Property Awareness Mission (NIPAM) has achieved **target of imparting Intellectual Property (IP) awareness and basic training to 1 million students** on 31st July 2022, ahead of the deadline which was 15 August 2022.
- NIPAM, a **flagship program to impart IP awareness and basic training**, was launched on 8 Dec 2021 as a part of "Azadi Ka Amrit Mahotsav" celebrations.
- The program is being **implemented by Intellectual Property Office, the Office of Controller General of Patents, Designs and Trade Marks (CGPDTM), Ministry of Commerce and Industry.**

Source: [CLICK HERE](#)

Q.44) Consider the following statements about Armed Forces Tribunal (AFT)

1. It is a military tribunal with the power of adjudication or trial of disputes and complaints related to commission, appointments, enrolments and conditions of service.
2. The Tribunal is empowered to adjudicate appeals against any sentence passed by a court-martial.
3. An appeal against the AFT orders does not lie before the High Courts.

Choose the incorrect statements:

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

Q.44) Solution (c)

- Armed Forces Tribunal was established in August 2009 by the **Armed Forces Tribunal Act 2007.**



- It is a military tribunal with the power of **adjudication or trial of disputes and complaints related to commission, appointments, enrolments and conditions of service. Hence statement 1 is correct**
- The Tribunal is empowered to **adjudicate appeals against any order, decision, finding or sentence passed by a court-martial or any related matter. Hence statement 2 is correct**
- It is also empowered to grant bail to an accused who is in military custody.
- In January 2020, the **Supreme Court made it clear that the verdicts of the Armed Forces Tribunals (AFT) can be challenged before the high courts. Hence statement 3 is not correct**
- In 2015, a Supreme Court bench had held that AFT verdicts could not be challenged before the high courts.
- It had also said that an appeal against the AFT orders would lie before the apex court but only if a point of law of general public importance is involved.

Source: [CLICK HERE](#)

Q.45) Consider the following statements about Malvinas Island

1. It is located to the west of the Strait of Magellan.
2. It is an internally self-governing overseas territory of the United Kingdom and is located in the Pacific Ocean.
3. It is a disputed territory between the UK and Argentina.

Choose the correct statements:

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

Q.45) Solution (c)

Explanation:

Malvinas Island

- **Falkland Islands, also called Malvinas Islands or Spanish Islas Malvinas, internally selfgoverning overseas territory of the United Kingdom in the South Atlantic Ocean. Hence statement 2 is correct**
- It lies **northeast of the southern tip of South America** and a similar distance east of the Strait of Magellan. **Hence statement 1 is not correct**

- The capital and major town is Stanley, on East Falkland.
- It is a disputed Island between the **UK and Argentina**. Hence statement 3 is correct





Source: [CLICK HERE](#)

Q.46) Consider the following statements about Combined Maritime Forces

1. Combined Maritime Forces is a 34-nation maritime partnership based in Bahrain.
2. The grouping is commanded by a U.S. Navy Vice Admiral.
3. India is a founder member of Combined Maritime Forces.

Choose the correct statements:

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

Q.46) Solution (a)

Explanation:

- Combined Maritime Forces is a **34-nation maritime partnership** based in Bahrain that undertakes counter-terrorism, counter-piracy and regional cooperation. **Hence statement 1 is correct.**
- It is **commanded by U.S. Navy Vice Admiral.** **Hence statement 2 is correct.**
- 34 member nations: Australia, Bahrain, Belgium, Brazil, Canada, Denmark, Egypt, France, Germany, Greece, Italy, Iraq, Japan, Jordan, Republic of Korea, Kuwait, Malaysia, the Netherlands, New Zealand, Norway, Pakistan, The Philippines, Portugal, Qatar, Saudi Arabia, Seychelles, Singapore, Spain, Thailand, Turkey, UAE, United Kingdom, United States and Yemen. **Hence statement 3 is not correct.**

Source: [CLICK HERE](#)

Q.47) Consider the following statements about Indian Bureau of Mines (IBM)

1. Indian Bureau of Mines (IBM) is a statutory body established under Mines & Minerals (Regulation & Development) Act, 1948.
2. It aims to promote systematic and scientific development and optimum utilization of mineral resources of the country.
3. IBM is headed by Union Minister of Mines.

Choose the incorrect statements:

- a) 1 only



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

Q.47) Solution (c)

Explanation:

- The **Indian Bureau of Mines (IBM)** established in 1948, is a **multi-disciplinary government organisation** under the Department of Mines, Ministry of Mines, engaged in promotion of conservation, scientific development of mineral resources and protection of environment in mines other than coal, petroleum & natural gas, atomic minerals and minor minerals. **Hence statement 1 is not correct.**
- The objective of the IBM is to promote **systematic and scientific development** and **optimum utilisation of mineral resources** of the country (both on-shore and off-shore). **Hence statement 2 is correct.**
- Headed by the **Controller General**, IBM has six technical divisions with its head quarters at Nagpur. **Hence statement 3 is not correct.**
- IBM has 4 Zonal Offices, 13 Regional Offices, 2 Regional Ore Dressing Laboratories and Pilot Plants spread over the Country.

Source: [CLICK HERE](#)

Q.48) Consider the following statements about Small Cells in 5G

1. Small Cells are low-powered radio access nodes that have a coverage range from a few metres to a few hundred metres.
2. They are portable, easy to deploy and help provide localised coverage.
3. Small Cells are needed for deploying 5G as opposed to earlier generations such as 4G, because of the frequency.

Choose the incorrect statements:

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

Q.48) Solution (d)

Explanation:



- Small Cells are **low-powered radio access nodes or base stations** that have a coverage range from a few metres to a few hundred metres. **Hence statement 1 is correct.**
- They are **portable, easy to deploy and help provide localised coverage.** **Hence statement 2 is correct.**
- Small Cells are needed for deploying 5G as opposed to earlier generations such as 4G, because of the frequency. **Hence statement 3 is correct.**
- The higher the frequency, the lower the wavelength, which means that the distance they travel is less.
- To expedite the roll out of 5G, telecom operators in the country will leverage street furniture such as poles, advertisement hoardings and bus shelters for deploying the Small Cells.

Source: [CLICK HERE](#)

Q.49) Consider the following statements about Grameen Udyami Project

1. It is a unique multiskilling project funded by the National Skill Development Corporation
2. The project aims to train 5 lakh tribal students in rural India
3. It is implemented under Sansadiya Parisankul Yojana.

Choose the correct statements:

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

Q.49) Solution (d)

Explanation:

- To augment **skill training in tribal communities** for their inclusive and sustainable growth, **National Skill Development Corporation (NSDC)** in partnership with Seva Bharti and Yuva Vikas Society, launched the second phase of Grameen Udyami Project. Under the initiative, the endeavour is to multiskill India's youth and impart functional skills to them for enabling livelihoods. **Hence statement 1 is correct.**
- It aims to train **450 tribal students** in Madhya Pradesh and Jharkhand. The project is being implemented in six states— Maharashtra, Rajasthan, Chhattisgarh, Madhya Pradesh, Jharkhand, and Gujarat. **Hence statement 2 is not correct.**



- Grameen Udyami Yojana is implemented under **Sansadiya Parisankul Yojana**. Hence **statement 3 is correct**.

Source: [CLICK HERE](#)

Q.50) Consider the following statement about Katchal island

1. It is part of the Nicobar Islands and is located to the south of Sentinel Island.
2. Mangrove forest on the Island is of propagule type, meaning they can become detached from a plant and give rise to a new plant.

Choose the correct statements:

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

Q.50) Solution (a)

Explanation:

- It is part of the Nicobar Islands and **is located to the south of Sentinel Island**. Hence statement 1 is correct. **Hence statement 1 is correct.**
- The United States National Aeronautics and Space Administration (NASA) recently highlighted the loss of mangrove cover on Katchal island, a part of India's Nicobar archipelago.
- The mangrove cover on Katchal will not come back as it lacks propagules.
- A **propagule is a vegetative structure** that can become detached from a plant and give rise to a new plant. **Hence statement 2 is not correct.**

Source: [CLICK HERE](#)

Q.51) Consider the following statements about Indo-Pacific Economic Framework for Prosperity (IPEF)

1. Along with India and USA, all ASEAN countries are members to the framework.
2. Trade and Tax & Anti-Corruption are among the four pillars of the framework.
3. Under the framework developed countries have agreed to provide financial assistance of \$100 billion to the developing countries of the framework.



Choose the INCORRECT statements:

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

Q.51) Solution (d)

Explanation:

- Statement 1 – Incorrect, The Indo-Pacific Economic Framework (IPEF) was launched by United States (US) President Biden in Tokyo on May 23, 2022. **Except Cambodia, Laos and Myanmar, other Southeast Asian nations are a part of the IPEF.**
- Statement 2 – Correct, The IPEF has four pillars: **Trade; supply chains; clean energy, decarbonisation and infrastructure; tax and anti-corruption.**
- Statement 3 – Incorrect, There is **no such measure.**

Source: <https://pib.gov.in/PressReleasePage.aspx?PRID=1857960>

Q.52) Consider the following statements

1. Treaty on the Prohibition of Nuclear Weapons is the first legally binding international agreement to comprehensively prohibit nuclear weapons.
2. All the permanent members of the UN Security Council have ratified Comprehensive Test Ban Treaty (CTBT) that bans all nuclear explosions – everywhere, by everyone.

Select the correct statement(s)

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

Q.52) Solution (a)

Explanation:

- Statement 1 – Correct, Treaty on the Prohibition of Nuclear Weapons. The nuclear have-nots successfully negotiated a Treaty on the Prohibition of Nuclear Weapons (TPNW, also called Ban Treaty) in 2017 that entered into force in January 2021. All 86 signatories are nuclear have-nots and parties to the NPT. **It is the first legally binding international agreement to**



comprehensively prohibit nuclear weapons, with the goal of leading towards their total elimination.

- Statement 2 – Incorrect, The Comprehensive Test Ban Treaty (CTBT) was concluded in 1996 but has **yet to formally enter into force because two major powers, the U.S. and China, have yet to ratify it. The CTBT is the Treaty banning all nuclear explosions – everywhere, by everyone.** The Treaty will enter into force after all 44 States listed in Annex 2 to the Treaty will ratify it. These States had nuclear facilities at the time the Treaty was negotiated and adopted.

Source:<https://www.thehindu.com/opinion/lead/the-npt-is-beginning-to-look-shaky/article65842423.ece>

Q.53) Shumang Leela festival, a traditional form of theatre is celebrated in?

- a) Odisha
- b) Manipur
- c) Assam
- d) West Bengal

Q.53) Solution (b)

Explanation:

- Shumang Leela is a traditional form of theatre in Manipur and the roles of female artists are all played by male actors and male characters are played by female artists in case of female theatre groups. Shumang Leela Groups of the early stage attempted to preserve and promote humanism, tolerance, confidence, devotion, truth and justice through their performances. The present day Shumang Leelas have been trying to focus on the issues of moral values, unity and integrity.

Source: <https://newsonair.gov.in/News?title=50th-All-Manipur-Shumang-Leela-Festival-2021-2022-kicks-off-in-Imphal&id=446712>

Q.54) Consider the following statements about Martand Temple

1. It was built by King Harsha of the first Lohara dynasty in eighth century
2. The temple is dedicated to Vishnu-Surya.
3. The historical source for Kashmir's history Rajatarangini, contain descriptions of Martand's grandeur.



4. The temple is influenced by Classical Greco-Roman, Buddhist-Gandharan, and North Indian styles.

Choose the correct statements:

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

Q.54) Solution (d)

Explanation:

- Statement 1 – Incorrect, The Martand Temple was built by the **Karkota dynasty king Lalitaditya Muktapida, who ruled Kashmir from 725 AD to 753 AD.**
- Statement 2 – Correct, **Dedicated to Vishnu-Surya**, the Martand Temple has three distinct chambers—the mandapa, the garbhagriha, and the antralaya—probably the only three-chambered temple in Kashmir.
- Statement 3 – Correct, A major historical source for **Kashmir's history remains Rajatarangini**, written in the 12th century by Kalhana, and various translations of the work contain descriptions of Martand's grandeur.
- Statement 4 – Correct, The temple is influenced by **Classical Greco-Roman, Buddhist-Gandharan, and North Indian styles.**

Source:<https://indianexpress.com/article/explained/explained-culture/martand-temple-kashmir-history-controversies-explained-8129852/>

Q.55) Which among the following is/are found at Mohenjodaro?

- 1. Bronze dancing girl
- 2. Seal of Pasupathi
- 3. Great bath
- 4. Steatite statue of beard man

Choose the correct code:

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



Q.55) Solution (d)

Explanation:

Mohenjodaro (Mound of Dead) was excavated by R.D Banerjee in 1922

Important Findings are - **Great bath, Granary, Bronze dancing girl, Seal of Pasupathi Mahadeva,**

Source: <https://indianexpress.com/article/explained/explained-global/explained-pakistan-floods-imperiled-mahenjo-daros-world-heritage-tag-8132814/>

Q.56) Consider the following statements about PM SHRI Yojana

1. The scheme aims to provide financial assistance to rural Self Help Groups.
2. It is a centrally sponsored scheme.
3. It also aims to form at least one SHG in each village by 2024.

Choose the correct statements:

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

Q.56) Solution (a)

Explanation:

- Statement 1 – Incorrect, This will be a new centrally sponsored **scheme for upgradation and development of more than 14500 Schools across the country by strengthening the selected existing schools from amongst schools** managed by Central Government/ State/ UT Government/ local bodies.
- Statement 2 – Correct, Scheme of PM SHRI schools (PM ScHools for Rising India) is to be implemented as a **Centrally Sponsored Scheme** with a total project cost of Rs. 27360 crore which includes a central share of Rs. 18128 crore for the period of five years from year 2022-23 to 2026-27.
- Statement 3 – Incorrect, the scheme **does not mention anything about Self Help Groups**

Source: [CLICK HERE](#)

Q.57) Consider the following statements about Einstein Ring



1. It is created when the light from distant objects, like galaxies, pass by an extremely large mass.
2. Einstein Ring is the result of gravitational lensing.
3. They cannot form around a black hole, since the black hole absorbs all the light.

Choose the correct statements:

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

Q.57) Solution (a)

Explanation:

- Statement 1 – Correct, In Einstein's theory of Gravity, mass can bend the path of light. **It is created when the light from distant objects, like galaxies, pass by an extremely large mass.** A ring-shaped image produced in this way is known as an Einstein Ring.
- Statement 2 – Correct, A gravitational lens happens when astronomers on Earth look toward a huge galaxy or galaxy cluster, so massive that **its gravity distorts any light passing nearby.** This creates Einstein rings
- Statement 3 – Incorrect, **for the lensing by a black hole, infinite number of Einstein rings are formed by the light rays** which wind around the black hole nearly on the photon sphere, which are called relativistic Einstein rings.

Source: [CLICK HERE](#)

Q.58) E-Daakhil portal, recently seen in news is for?

- a) Digital lending mechanism
- b) Consumer grievance redressal
- c) Unemployment Assistance
- d) Connecting with employees and employers

Q.58) Solution (b)

Explanation:

The e-daakhil portal **empowers the consumer and their advocates to file the consumer complaints** along with payment of requisite fees online from anywhere for the redressal of their



complaints. It also facilitates the consumer commissions to scrutinize the complaints online to accept, reject or forward the complaint to the concerned commission for further processing. It was launched by **National Consumer Dispute Redressal Commission (NCDRC)** on 7th September, 2020, for online redressal of consumer grievances.

Source: [CLICK HERE](#)

Q.59) Consider the following statements

1. A woman in Engineering, Science, and Technology (WEST) program is an initiative of NITI Aayog to provide a separate platform to scientifically inclined women researchers and scientists.
2. Indian Science Technology and Engineering facilities Map (I-STEM) is a National Web portal for sharing Research and Development facilities.

Choose the correct statements:

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

Q.59) Solution (b)

Explanation:

- Statement 1 – Incorrect, The WEST programme **will cater to women with a Science, Technology, Engineering, and Mathematics (STEM) background** and empower them to contribute to the science, technology, and innovation ecosystem. It was **launched by Office of the Principal Scientific Adviser (PSA)** to the Government of India
- Statement 2 – Correct, **I-STEM is a National Web portal for sharing R&D (Research and Development) facilities**. The portal facilitates researchers to access slots for the use of equipment, as well as to share the details of the outcomes, such as patents, publications and technologies.

Source: [CLICK HERE](#)

Q.60) Consider the following statements about Startup SETU initiative



1. The initiative would connect start-ups in India to US-based investors and start-up ecosystem leaders.
2. The interaction in SETU will be supported through the mentorship portal, MAARG, under the Startup India initiative.

Choose the correct statements:

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

Q.60) Solution (c)

Explanation:

- Statement 1 – Correct, The initiative would **connect start-ups in India to US-based investors and start-up ecosystem leaders**. It will provide mentorship and assistance in various areas including funding, market access and commercialization. **The Ministry of Commerce and Industry has recently launched the US Startup SETU initiative.**
- Statement 2 – Correct, The **interaction will be supported through the mentorship portal under the Startup India initiative Mentorship, Advisory, Assistance, Resilience, and Growth program (MAARG)**. MAARG is a single-stop solution finder for startups in India.

Source: [CLICK HERE](#)

Q.61) Consider the following statements about Inflatable Aerodynamic Decelerator (IAD)

1. It is indigenously developed Air defence mechanism by DRDO.
2. The decelerator in the system helps identify the acceleration of the incoming missiles.
3. IAD can identify the speed of both cruise and ballistic missiles.

Choose the INCORRECT statements:

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

Q.61) Solution (d)



Explanation:

Statement 1 – Incorrect, Inflatable Aerodynamic Decelerator or **IAD in short is designed and developed by ISRO's Vikram Sarabhai Space Centre (VSSC)**, IAD is a game-changer with multiple applications for future missions including to Mars and Venus.

Statement 2 – Incorrect, IAD is a technique used for an **atmospheric entry payload**. An inflatable envelope and an inflatant (anything that inflates the envelope, like air or helium) make up the inflatable aerodynamic decelerator. While entering the atmosphere, it inflates like a balloon and decelerates the lander. **It has nothing to do with missiles**

Statement 3 – Incorrect, **IAD is designed to increase drag upon entering the atmosphere of any planetary body, like Earth, Mars, or even Moon**. Its shape is maintained by a closed, gas-pressured body and the inflatant gas is also generated internally.

Source: [CLICK HERE](#)

Q.62) Consider the following statements about QRSAM system

1. It is a long range surface-to-air missile (SAM) system.
2. QRSAM has a fully automated Command and Control System.
3. It is primarily designed to provide a protective shield to moving armoured columns of the Army from enemy aerial attacks.

Choose the correct statements:

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

Q.62) Solution (b)

Explanation:

Statement 1 – Incorrect, Quick Reaction Surface-to-Air Missile system (QRSAM) is a **short range surface-to-air missile (SAM) system**

Statement 2 – Correct, The QRSAM weapon ensemble which functions on the move consists of a **fully automated command and control system**.



Statement 3 – Correct, It is primarily designed and developed by **DRDO to provide a protective shield to moving armoured columns of the Army from enemy aerial attacks**. It has been designed for induction into the Army and has a range of 25 to 30 km.

Source: [CLICK HERE](#)

Q.63) Consider the following statements about Moxie experiment

1. The experiment aims to produce oxygen from the Martian Carbon dioxide atmosphere.
2. It is launched as part of NASA's Curiosity Rover mission, a joint program by NASA and Japan Aerospace Exploration Agency (JAXA).

Choose the correct statements:

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

Q.63) Solution (a)

Explanation:

Statement 1 – Correct, The **experiment aims to produce oxygen from the Martian carbon-dioxide atmosphere**.

Statement 2 – Incorrect, **It was launched as part of NASA's Perseverance rover mission** and has been successfully making oxygen from the planet's carbon-dioxide-rich atmosphere since it landed there in 2021.

Source: [CLICK HERE](#)

Q.64) The Gender Snapshot 2022 report was launched by?

- a) United Nations Women and the UN Department of Economic and Social Affairs
- b) World Economic Forum
- c) UN Development Programme and United Nations Economic and Social Council
- d) World Bank

Q.64) Solution (a)



The report entitled “Progress on the Sustainable Development Goals (SDG): The Gender Snapshot 2022” was launched by United Nations (UN) Women and the UN Department of Economic and Social Affairs (UN DESA). The report highlighted that Sustainable Development Goal-5 (SDG-5), or achieving gender equality, will not be met by 2030 at the current pace of progress.

Source: [CLICK HERE](#)

Q.65) Consider the following statements about EU-India green hydrogen forum

1. It was jointly organized by the Ministry of Environment, Forest and Climate Change and European Investment Bank's (EIB) Climate Bank.
2. It provides a platform for the exchange of best practices, policy frameworks for renewable hydrogen.

Choose the correct statements:

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

Q.65) Solution (b)

Explanation:

Statement 1 – Incorrect, EU-India green hydrogen forum was organized **jointly by the Delegation of the European Union and the Ministry of New and Renewable Energy, in cooperation with the Confederation of Indian Industry (CII) and Hydrogen Europe.**

Statement 2 – Correct, The Forum **provides a platform for the exchange of best practices, policy frameworks and production and application technologies** for renewable hydrogen as well as opportunities for EU-India cooperation in this area. It also **provides for the legal requirements for the certification of renewable hydrogen** and research and innovation.

Source: [CLICK HERE](#)

Q.66) Consider the following statements about Anti-Radiation Pills

1. They are Potassium iodide (KI) tablets which provide protection in cases of radiation exposure.



2. Potassium iodide (KI) tablets achieve protection by the process of 'thyroid activation'.

Choose the INCORRECT statements:

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

Q.66) Solution (b)

Explanation:

- Potassium iodide (KI) tablets, or anti-radiation pills, are **known to provide some protection in cases of radiation exposure**. They contain non-radioactive iodine and can help block absorption, and subsequent concentration, of radioactive iodine in the thyroid gland.
- The thyroid gland, which uses iodine to produce hormones to regulate the body's metabolism, has no way of telling radioactive from non-radioactive iodine. **Potassium iodide (KI) tablets rely on this to achieve 'thyroid blocking'**. KI pills taken a few hours before or soon after radiation exposure ensure that **non-radioactive iodine in the medicine is absorbed quickly to make the thyroid "full"**

Source: [CLICK HERE](#)

Q.67) Consider the following statements about NIPUN Bharat Mission

- 1. It aims to achieve the goal of universal proficiency in foundational literacy and numeracy for every child by the end of Grade 3, by 2026-27.
- 2. A three tier implementation mechanism has been set up, under the aegis of the central sector scheme of Samagra Shiksha.

Choose the correct statements

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

Q.67) Solution (a)

Explanation:



- It aims to achieve the goal of **universal proficiency in foundational literacy and numeracy** for every child by the **end of Grade 3, by 2026-27**, as envisaged by National Education Policy 2020.
- **A five-tier implementation mechanism** will be set up at the National- State- District- Block- School level in all States and UTs, under the aegis of the centrally sponsored scheme of Samagra Shiksha

Source: [CLICK HERE](#)

Q.68) Consider the following statement about Acharya Vinoba Bhave

1. He presided over 1922 Gaya session of Indian National Congress.
2. He was chosen as the first Individual Satyagrahi, in 1940, against British Raj by Gandhiji in India.
3. Bhoodan Movement in 1930s was led by him.

Choose the correct statements

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

Q.68) Solution (c)

Explanation:

- **Chittaranjan Das was the President of the Gaya Session** of the Indian National Congress held in 1922.
- Took part in programs of non-cooperation and especially the call for use of Swadeshi goods instead of foreign imports. In 1940, he was **chosen as the first Individual Satyagrahi (an Individual standing up for Truth instead of a collective action) against British Raj by Gandhi in India.**
- The Bhoodan movement (Land Gift movement), also known as the Bloodless Revolution, was a voluntary land reform movement in India. It was **initiated by Gandhian Vinoba Bhave in 1951** at Pochampally village, Pochampally.

Source: [CLICK HERE](#)



Q.69) Consider the following statement about Changthang Wildlife Sanctuary

1. It is a high altitude wildlife sanctuary located in Tawang district of Arunachal Pradesh.
2. It is home to the Arunachal Pradesh's highest peak Kangto.
3. It is home to Tibetan Wild Ass and the rare Black-necked Crane.

Choose the correct statements:

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

Q.69) Solution (a)

Explanation:

- It is located in the **Ladakhi Changthang Plateau in the Leh**
- It boasts of the **highest lake on earth, Tso Moriri**. It is also believed to include the world's highest village, Korzok Village that draws tourists for the Korzok Monastery.
- From sighting the **rare snow leopard**, one can also spot a kiang or a wild ass, along with the dark-necked crane. Other species found here are the **Tibetan wolf, wild yak, bharal, brown bear and the marmot that seems to be present everywhere**.

Source: [CLICK HERE](#)

Q.70) The multinational Exercise Kakadu – 2022, recently seen in news is hosted by?

- a) South Korea
- b) South Africa
- c) Australia
- d) Vietnam

Q.70) Solution (c)

Explanation:

Exercise Kakadu is a joint-enabled, biennial exercise hosted by the **Royal Australian Navy and supported by the Royal Australian Air Force**. Kakadu is the Navy's premier maritime exercise,



developing interoperability between nations in the maritime and air domains, and providing training opportunities for maritime security and surveillance. It started in 1993.

Source: [CLICK HERE](#)

Q.71) Lake Kuk, recently seen in news is located in?

- a) Cameroon
- b) Togo
- c) Ghana
- d) Nigeria

Q.71) Solution (a)

Explanation:

Both Lake Kuk and Nyos are crater lakes located in a region of volcanic activity known as the Cameroon Volcanic Line. The Cameroon volcanic line consists of a string of volcanoes that extend from the Atlantic Ocean into Republic of Cameroon. The volcanoes here cross the oceanic-continental boundary.

Source: [CLICK HERE](#)

Q.72) Consider the following statements about Green Fins Hub

1. It is the first-ever global marine tourism industry platform for diving and snorkelling operators worldwide.
2. It was developed by The Reef-World Foundation in partnership with the International Organization for Sustainable Development.
3. Operators will receive environmental scores based on a detailed online self-evaluation and progress made on their action plans.

Choose the INCORRECT statements

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

Q.72) Solution (c)

Explanation:

- The **Green Fins Hub** is the **first-ever global marine tourism industry** platform for diving and snorkelling operators worldwide.
- It was developed by **The Reef-World Foundation** in partnership with the **United Nations Environment Programme (UNEP)**.
- Throughout every year of membership, **operators will receive environmental scores based on a detailed online self-evaluation** and progress made on their action plans. The assessment process will continue to be based on set criteria using a scoring system (0-330 point system, with a low score implying low impact of a business on coral reefs).

Source: [CLICK HERE](#)

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

Tribe	State/UT
Narikoravan	Tamil Nadu
Kadu Kuruba	Kerala
Hatti	Himachal Pradesh
Binjiha	Madhya Pradesh

Choose the correct code:

- Only one pair is correct
- Only two pairs are correct
- Only three pairs are correct
- All pairs are correct

Q.73) Solution (b)

Explanation:

- The **Hatti tribe** in the Trans-Giri area of Sirmour district in **Himachal Pradesh**.
- The **Narikoravan** and Kurivikkaran hill tribes of **Tamil Nadu** .
- The **Binjha** in **Chhattisgarh**, who were listed as ST in Jharkhand and Odisha but not in Chhattisgarh, were the communities newly added to the list.
- **Kadu kuruba** is a scheduled tribe found in **Karnataka**
- Cabinet approved a proposal to bring the Gond community residing in 13 districts of Uttar Pradesh, under the ST list from the Scheduled Caste list.



- This includes the five subcategories of the Gond community (Dhuria, Nayak, Ojha, Pathari, and Rajgond).

Source: [CLICK HERE](#)

Q.74) Consider the following statements about International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA)

1. It works under the aegis of International Fund for Agricultural Development (IFAD).
2. The objective of the treaty is to recognise the contribution of farmers to the diversity of crops.
3. India is not a signatory to the treaty.

Choose the INCORRECT statements:

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

Q.74) Solution (b)

Explanation:

- It works under the aegis of the **Food and Agriculture Organisation** of the United Nations.
- It aims to conserve and sustainably use plant genetic resources for food and agriculture, and **fair and equitable sharing of the benefits arising out of their use**, in harmony with the Convention on Biological Diversity.
- **ITPGRFA is a legally binding comprehensive agreement** adopted in November, 2001 at Rome during the 31st session of Food and Agriculture Organization of the United Nations, which entered into force on June 29, 2004 and **currently has 149 Contracting Parties, including India.**

Source: [CLICK HERE](#)

Q.75) Consider the following statements about Asiatic Caracal

1. The most significant potential habitat for caracals are Rajasthan, Gujarat, Madhya Pradesh.
2. Its protection status is in endangered category under IUCN Red List.



Choose the correct statements

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

Q.75) Solution (a)

Explanation:

- They are found mostly in **Rajasthan, Gujarat and Madhya Pradesh** and are located in Kutch, the Malwa Plateau, the Aravalli hill range. Besides India, the **caracal is found in several dozen countries across Africa, the Middle East, Central and South Asia.**
- Protection Status:
 - IUCN Red List: **Least Concern**
 - Wildlife Protection Act, 1972: Schedule I
 - CITES: Appendix I

Source: [CLICK HERE](#)

Q.76) Consider the following statements about Swatch Sagar, Surakshit Sagar Campaign:

1. It is the longest running coastal cleanup campaign in the world with highest number of people participating in it.
2. A mobile app Eco Mitram has been launched to spread awareness about the campaign.

Choose the INCORRECT statements:

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

Q.76) Solution (d)

Explanation:



- It is the first-of-its-kind and **longest running coastal cleanup campaign in the world** with **highest number of people** participating in it. It is a 75-day citizen-led campaign for improving ocean health through collective action.
- A **mobile app “Eco Mitram”** has been launched to spread awareness about the campaign and also for the common people for voluntary registration for the beach cleaning activity.

Source: [CLICK HERE](#)

Q.77) INSPIRE Award, recently seen in news is aligned with which of the following initiative?

- a) SMILE
- b) Start-Up India
- c) Samarth Scheme
- d) Atal Innovation Mission

Q.77) Solution (b)

Explanation:

INSPIRE (Innovation in Science Pursuit for Inspired Research) Award is aligned with the **‘Start-up India’ initiative** and is being **executed by DST (Department of Science and Technology)** with National Innovation Foundation – India (NIF), an autonomous body of DST. Under this, the students are invited from all government or private schools throughout the country, irrespective of their educational boards (national and state).

Source: [CLICK HERE](#)

Q.78) Consider the following statements about Peatlands

1. Peatlands occur in every climatic zone and sequester more carbon than any other type of terrestrial ecosystem.
2. Cuvette Centrale peatlands, in Congo basin is the world's largest tropical peatland complex.
3. Brazzaville Declaration, implements coordination between different government sectors to protect the benefits provided by peatland ecosystems.

Choose the correct statements:

- a) 1 only



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

Q.78) Solution (d)

Explanation:

- Peatlands are terrestrial wetland ecosystems in which waterlogged conditions prevent plant material from fully decomposing. Consequently, the production of organic matter exceeds its decomposition, which results in a net accumulation of peat. **Peatlands occur in every climatic zone and continent.**
- **world's largest tropical peatlands is Cuvette Centrale region in Congo Basin**
- **Brazzaville Declaration aims to implement coordination and cooperation between different government sectors to protect the benefits provided by peatland ecosystems.** The agreement is the beginning of a deep collaboration between Indonesia, covered by vast expanses of peatlands, and the Congo Basin.

Source: [CLICK HERE](#)

Q.79) Consider the following statements about India Hypertension Control Initiative (IHCI)

1. It is a large-scale intervention under the National Health Mission (NHM).
2. IHCI is a collaborative initiative of the health ministry, Indian Council of Medical Research (ICMR), state governments and World Health Organization-India.
3. India won a United Nations award for its Hypertension Control Initiative.

Choose the INCORRECT statements:

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

Q.79) Solution (c)

Explanation:

- India won a UN award for its Hypertension Control Initiative. The initiative is a large-scale intervention under the National Health Mission (NHM). Under the initiative, 3.4 million



hypertensive people were identified and put on treatment at various government health facilities.

- IHCI is a multi-partner initiative of the Ministry of Health and Family Welfare, Indian Council of Medical Research (ICMR), WHO Country Office for India and Resolve to Save Lives (Technical partner).
- The award comes at a time when the WHO has estimated that one in every four adults in India suffers from hypertension and only 12 per cent of these adults have hypertension under control.

Source: [CLICK HERE](#)

Q.80) Consider the following statements about Asia-Pacific Institute for Broadcasting Development (AIBD)

1. The Asia-Pacific Institute for Broadcasting Development (AIBD), established in 1977 under the auspices of UNESCO.
2. It is a unique regional inter-governmental organisation servicing members of the UNESCO in the field of electronic media development.
3. Currently India is heading the presidency of Asia-Pacific Institute for Broadcasting Development (AIBD).

Choose the correct statements:

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

Q.80) Solution (c)

Explanation:

- The **Asia-Pacific Institute for Broadcasting Development (AIBD)** was established in **1977** under the aegis of **United Nations Educational, Scientific and Cultural Organization (UNESCO)**.
- It is a unique regional inter-governmental organisation **servicing countries of the United Nations Economic and Social Commission for Asia and the Pacific (UN-ESCAP) in the field of electronic media development**. Its secretariat is situated in Kuala Lumpur and is hosted by the Government of Malaysia.



- India's Presidency of the prestigious Asia-pacific Institute of Broadcasting Development (AIBD) has been extended for one more year.

Source: [CLICK HERE](#)

Q.81) Consider the following statements about PM YUVA (Young, Upcoming and Versatile Authors) 2.0 Scheme

1. The scheme functions under the aegis of the Department of Higher Education, the Ministry of Education.
2. The National Book Trust is the implementing agency of the scheme.
3. The scheme aims to mentor and train young and budding authors below the age of 30 years.

Choose the correct statements:

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

Q.81) Solution (b)

Explanation:

- The **Ministry of Education, Department of Higher Education, launched YUVA 2.0** - Prime Minister's Scheme for Mentoring Young Authors. **Hence statement 1 is correct.**
- The **National Book Trust (NBT)**, India, as the implementing agency under MoE will ensure the phasewise execution of the scheme under well-defined stages of mentorship. **Hence statement 2 is correct.**
- The scheme is an **Author Mentorship programme to train young and budding authors (below 30 years of age) in order to promote reading, writing and book culture in the country**, and project India and Indian writings globally. **Hence statement 3 is correct.**
- In view of the significant impact of the first edition of YUVA with large scale participation from young and budding authors in 22 different Indian languages and English, YUVA 2.0 is now being launched.
- The launch of YUVA 2.0 (Young, Upcoming and Versatile Authors) is in tune with the Prime Minister's vision to encourage the youth to understand and appreciate India's democracy.



Source: [CLICK HERE](#)

Q.82) Consider the following statements with respect to 'Emergency Credit Line Guarantee Scheme'

1. ECLGS is under the operational domain of the Department of Financial Services (DFS), Ministry of Finance.
2. First-time borrowers too can raise funds under this scheme.
3. 100% guarantee is provided by the National Credit Guarantee Trustee Company (NCGTC).

Choose the correct statements:

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

Q.82) Solution (c)

Explanation:

- ECLGS is under the operational domain of the **Ministry of Finance, Department of Financial Services (DFS)**. It was announced as part of **the Atma Nirbhar Bharat Package in 2020** with the objective to help businesses including MSMEs to meet their operational liabilities and resume business in view of the distress caused by the COVID-19 crisis. **Hence statement 1 is correct.**
- **First-time borrowers and Non-Performing Asset (NPA) accounts cannot raise funds** under the scheme. **Hence statement 2 is not correct.**
- **100% guarantee is provided by the National Credit Guarantee Trustee Company (NCGTC) to Member Lending Institutions (MLIs)** – banks, financial institutions and Non-Banking Financial Companies (NBFCs). **Hence statement 3 is correct.**

Source: [CLICK HERE](#)

Q.83) Consider the following statements about 'United Nations Human Rights Council'

1. The members of the General Assembly elect the members of the Human Rights Council
2. It traditionally meets thrice a year in April, August and December



3. The Council undertakes a periodic review of all UN member states, called the Universal Periodic Review (UPR).

Choose the incorrect statements:

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

Q.83) Solution (d)

Explanation:

- The **Council consists of 47 members, elected yearly by the General Assembly** for staggered **three-year terms**. The term of each seat is three years, and no member may occupy a seat for more than two consecutive terms. **Hence statement 1 is correct.**
- The **UNHRC holds regular sessions three times a year, in March, June, and September.** **Hence statement 2 is not correct.**
- The UNHRC can decide at any time to hold a special session to address human rights violations and emergencies, at the request.
- An important component of the Council consists of a periodic review of all 193 UN member states, called the **Universal Periodic Review (UPR).** **Hence statement 3 is correct.**
- The mechanism is based on reports coming from different sources, one of them being contributions from nongovernmental organisations (NGOs). Each country's situation will be examined during a three-and-a-half hour debate.

Source: [CLICK HERE](#)

Q.84) Consider the following statements about Next Generation Launch Vehicle (NGLV)

1. It is a two stage reusable heavy lift vehicle
2. It will feature semi-cryogenic propulsion for the booster stages
3. It can carry 50 tonne payload to Geostationary Transfer Orbit.

Choose the correct statements:

- a) 1 and 3



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

Q.84) Solution (b)

Explanation:

- ISRO is developing a **Next-Gen Launch Vehicle (NGLV)**. NGLV is understood to be a cost efficient, **three-stage to orbit, reusable heavy-lift vehicle** with a payload capability of ten tonnes to Geostationary Transfer Orbit (GTO). **Hence statement 1 is not correct.**
- NGLV will feature **semi-cryogenic propulsion** (refined kerosene as fuel with liquid oxygen (LOX) as oxidiser) for the booster stages which is cheaper and efficient. **Hence statement 2 is correct.**
- It can **carry 10 tonne payload to Geostationary Transfer Orbit**. **Hence statement 3 is not correct.**

Source: [CLICK HERE](#)

Q.85) Consider the following statements about Kalanamak Rice

1. Kalanamak is a traditional variety of paddy with black husk and strong fragrance.
2. It is usually grown in Terai region of north-eastern Uttar Pradesh and in Nepal.

Choose the correct statements:

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

Q.85) Solution (c)

Explanation:

- Kalanamak is a **traditional variety of paddy with black husk and strong fragrance**. It is considered a gift from Lord Buddha to the people of Sravasti when he visited the region after enlightenment. **Hence statement 1 is correct.**
- The traditional Kalanamak rice is protected under the **Geographical Indication (GI) tag system**. **Grown in 11 districts of the Terai region of north-eastern Uttar Pradesh and in Nepal**. **Hence statement 2 is correct.**



Source: [CLICK HERE](#)

Q.86) Consider the following statements about the Red Mud

1. Red mud is an industrial waste generated during the processing of bauxite into alumina using the Bayer process.
2. It can be used to build radiation shielding structures in diagnostic X-rays, CT scanner rooms and Cath labs.
3. It is low cost, non-toxic and has very less chances of leaching the surrounding environment.

Choose the correct statements:

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

Q.86) Solution (d)

Explanation:

- Red mud, now more frequently termed **bauxite residue**, is an industrial waste generated during the processing of **bauxite into alumina using the Bayer process**. It is composed of various oxide compounds, including the iron oxides which give its red colour. **Hence statement 1 is correct.**
- Red mud can be turned into **X-ray shielding tiles** in a green and economically viable manner through a ceramic route by adding a certain weight percentage of high Z material and binder with it. These tiles can be used to build radiation shielding structures in diagnostic Xrays, **CT scanner rooms, Cath labs, bone mineral density**, dental Xrays, etc., instead of the toxic lead sheet to protect the public from radiation hazards. **Hence statement 2 is correct.**
- It is considered to be **toxic due to its extreme alkalinity and heavy element leaching**. Although the scientific community has patented more than 700 applications of red mud, very few of them have reached industries due to high cost, low public acceptance, environmental issues, and limited market. **Hence statement 3 is not correct.**

Source: [CLICK HERE](#)



Q.87) Consider the following statements about 'Genetic Engineering Appraisal Committee (GEAC)'

1. It is a statutory committee functioning under Ministry of Science and Technology
2. No Objection Certification from the State/UT Government is required for confined field trials related to Genetically Modified (GM) crops by GEAC
3. GEAC is chaired by an expert in the field of bio-technology nominated by the Union Government.

Choose the incorrect statements:

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

Q.87) Solution (c)

Explanation:

- The Genetic Engineering Appraisal Committee (GEAC) is the **statutory committee** constituted under the "Rules for the Manufacture, Use/Import/Export and Storage of Hazardous Micro Organisms/Genetically Engineered Organisms or Cells (Rules, 1989)" framed **under Environment (Protection) Act, 1986. Hence statement 1 is not correct.**
- For the consideration of any application related to confined field trials of Genetically Modified (GM) crops by GEAC, **NOC from the State/UT Government is required. Hence statement 2 is correct.**
- GEAC is **chaired by the Special Secretary/Additional Secretary of MoEF&CC** and co-chaired by a representative from the Department of Biotechnology (DBT). Presently, it has 24 members and meets every month to review the applications in the areas indicated above. **Hence statement 3 is not correct.**

Source: [CLICK HERE](#)

Q.88) Consider the following statements about 'Agni Prime missile'

1. It is a two stage ballistic missile which can be launched from land, air and sea.
2. The nuclear-capable missile has been designed and developed by the Defence Research and Development Organisation (DRDO).



3. It is guided by a ring laser gyro inertial navigation system optionally augmented by GPS/NavIC satellite guidance.

Choose the correct statements:

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

Q.88) Solution (b)

Explanation:

- Agni-P is a **two-stage, road mobile and solid-fueled MRBM** which is transported by a truck and launched via a canister. In addition, since it is canisterised, it can be **launched from rail or road, be stored for longer periods and can be transported as per operational requirements. It cannot be launched from air. Hence statement 1 is not correct.**
- The **nuclear-capable missile** has been **designed and developed** by the Defence Research and Development Organisation (DRDO). It is manufactured by the Bharat Dynamics Limited. Hence statement 2 is correct.
- It is guided by **ring laser gyro inertial navigation system** with redundant micro inertial navigation and digital control system, Optionally augmented by GPS/NavIC satellite guidance. **Hence statement 3 is correct.**

Source: [CLICK HERE](#)

Q.89) Consider the following statements about 'Official Languages Committee'

1. It is a statutory committee constituted under the Official Language Act of 1963
2. The Act makes it obligatory for the President to issue directions in accordance with the report

Choose the incorrect statements:

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



Q.89) Solution (d)

Explanation:

- Official language committee is a **statutory committee constituted under Section 4 in the Official Language Act, 1963**. Hence statement 1 is correct.
- The Act makes it **obligatory for the President to issue directions “in accordance with the whole or any part of the report**. Hence statement 2 is correct.
- The remit of the committee is to review the progress made in the use of Hindi for the official purposes of the Union and submit a report to the President.

Source: [CLICK HERE](#)

Q.90) ‘Tigray’ a region which is conflict-ridden seen in news is in

- a) Syria
- b) Nigeria
- c) Ethiopia
- d) Burkina Faso

Q.90) Solution(c)

Explanation:

The Tigray Region is **the northernmost regional state in Ethiopia**. The Tigray War is an ongoing civil war that began on 3 November 2020 in the Tigray Region of Ethiopia. The war is primarily being fought by the Ethiopian federal government and Eritrea on one side, and the Tigray People’s Liberation Front (TPLF) on the other.

Source: [CLICK HERE](#)

Q.91) Consider the following statements about National Financial Reporting Authority

1. It is an independent regulator set up under the Companies Act of 2013
2. It can undertake investigation related to companies and bodies corporate called Public Interest Entities
3. The account of NFRA is monitored by the Comptroller and Auditor-General of India

Choose the correct code:



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

Q.91) Solution (d)

Explanation:

- National Financial Reporting Authority (NFRA) is an **independent regulator** set up to oversee the auditing profession and accounting standards in India under the **Companies Act 2013**. It came into existence in October 2018. **Hence statement 1 is correct.**
- **It can undertake investigation related to the following class of companies and bodies corporate called Public Interest Entities:** Companies whose securities are listed on any stock exchange in India or outside India.
- Unlisted public companies having paid-up capital of not less than Rs. 500 crores or having annual turnover of not less than Rs. 1,000 crores or having, in aggregate, outstanding loans, debentures and deposits of not less than Rs. 500 crores as on the 31st March of immediately preceding financial year. Insurance companies, banking companies, companies engaged in the generation or supply of electricity. **Hence statement 2 is correct.**
- The account of NFRA is **monitored by the Comptroller and Auditor General of India.** **Hence statement 3 is correct.**

Source: [CLICK HERE](#)

Q.92) Consider the following statements about 'East Asia Summit'

1. It consists of members from the Asian continent only.
2. India is one of the founding members of the East Asia Summit.

Choose the incorrect statements:

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

Q.92) Solution (a)



Explanation:

- The East Asia Summit (EAS) is a **regional forum held annually by leaders of, initially, 16 countries** in the East Asian, Southeast Asian, South Asian and Oceanian regions, based on the ASEAN Plus Six mechanism. Membership **expanded to 18 countries** including Russia and the United States at the Sixth EAS in 2011. **Hence statement 1 is not correct.**
- **India is one of the founding members of the East Asia Summit.** The EAS has 18 members - the ten ASEAN countries (Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand, Vietnam) along with Australia, China, India, Japan, New Zealand, the Republic of Korea, Russia and the United States. **Hence statement 2 is correct.**

Source: [CLICK HERE](#)

Q.93) Consider the following statements about 'Soil Carbon Stability'

1. Removal of grazing by herbivores from ecosystems can increase the fluctuations in the level of soil carbon
2. Soil contains more carbon than all plants and the atmosphere combined
3. Nitrogen always stabilizes the carbon pool in the terrestrial ecosystem

Choose the correct statements:

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

Q.93) Solution (a)

Explanation:

- Experimental **removal of grazing by herbivores** from such ecosystems was found to increase the **fluctuations in the level of soil carbon**, which can have negative consequences for the global carbon cycle. **Hence statement 1 is correct.**
- When plants and animals die, dead organic matter remains in the soil for a long duration before microbes break it down and release carbon into the atmosphere as carbon dioxide. **Soil contains more carbon than all plants and the atmosphere combined. Hence statement 2 is correct.**



- **A key factor underlying the carbon level fluctuations was nitrogen.** Depending on the soil conditions, nitrogen can either stabilise or destabilise the carbon pool. Grazing by herbivores, however, changes their interactions in ways that tip the balance in favour of the former. **Hence statement 3 is not correct.**

Source: [CLICK HERE](#)

Q.94) Consider the following statements about 'Digital Banking Units'

1. They are online portals which will help people access various banking facilities
2. They will help spread digital financial literacy and also offer real-time assistance

Choose the correct statements:

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

Q.94) Solution (b)

Explanation:

- **DBUs will be brick-and-mortar outlets which will provide a variety of digital banking facilities to people** such as opening savings accounts, balance-check, print passbooks, transfer of funds, investment in fixed deposits, loan applications, stop-payment instructions for cheques issued, applying for credit/debit cards, view statement of account, pay taxes, pay bills, make nominations, etc. **Hence statement 1 is not correct.**
- DBUs will enable customers to have **cost-effective, convenient access and enhanced digital experience of banking products and services throughout the year.** They will spread Digital Financial Literacy and special emphasis will be given to customer education on cyber security awareness and safeguards. Also, there shall be adequate digital mechanisms to offer **real-time assistance and redress customer grievances arising from business and services provided by the DBUs directly or through Business Facilitators/ Correspondents.** Hence statement 2 is correct.

Source: [CLICK HERE](#)

Q.95) The land cover in this national park changes with increasing elevation from tropical evergreenforest to temperate broadleaf and mixed forest. It is also home to three large cats –



tiger, leopard and clouded leopard. There are settlements of Lisu tribe within this park. The national park is

- a) Nameri National Park
- b) Raimona National Park
- c) Manas National Park
- d) Namdapha National Park

Q.95) Solution (d)

Explanation:

Namdapha National Park is a 1,985 km² (766 sq mi) large protected area in Arunachal Pradesh of Northeast India. The land cover changes with increasing elevation from **tropical evergreen forest to temperate broadleaf and mixed forest**. **Three pantherine species** are found in the park: leopard (*Panthera pardus*), tiger (*P. tigris*) and clouded leopard (*Neofelis nebulosa*). There are a **few settlements of Lisu tribal people within the park**. Most of the Lisus are, however, located beyond the eastern border of the park towards the international border of India with Myanmar.

Source: [CLICK HERE](#)

Q.96) Consider the following statements with respect to 'Beti Bachao Beti Padhao scheme'

1. The scheme is a joint initiative of Ministry of Women and Child Development and Ministry of Panchayati Raj
2. The scheme also includes the skilling of girls in non-traditional livelihood (NTL) options
3. A national committee headed by the Secretary, Ministry of Women and Child Development will be the apex committee to review the implementation of the scheme.

Choose the correct statements:

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

Q.96) Solution (c)

Explanation:



- The scheme is a **joint initiative of the Ministry of Women and Child Development, Ministry of Health and Family Welfare and Ministry of Education**. Hence **statement 1 is not correct**.
- The Central government recently announced the **inclusion of skilling of girls in non-traditional livelihood (NTL) options in Beti Bachao Beti Padhao programme**. The scheme will now also focus on increasing the enrolment of girls in secondary education, particularly in STEM (Science, Technology, Engineering, Mathematics) subjects. Hence **statement 2 is correct**.
- A **national committee headed by the Secretary, Ministry of Women and Child Development will be the apex committee to review the implementation** of the scheme at regular intervals with State governments and Union Territory administrations. Hence **statement 3 is correct**.

Source: [CLICK HERE](#)

Q.97) Consider the following statements about National Informatics Centre

1. It was established in 1976 and works under the aegis of the Ministry of Science and technology.
2. It has developed digital governance platforms like MyGov and PM-Kisan.

Choose the incorrect statements:

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

Q.97) Solution (a)

Explanation:

- The National Informatics Centre (NIC) was established in **1976 and is located in New Delhi**
- It comes under the **Ministry of Electronics and Information Technology (MeitY)**. Hence **statement 1 is not correct**.
- Its main objective is to provide technology-driven solutions to the Central and State Governments.
- It has developed digital governance platforms including **MyGov, PM-Kisan, National Power Portal, and e-Shram**.



- It offers free services to state government entities and funded by the Central budget.
Hence statement 2 is correct.

Source: [CLICK HERE](#)

Q.98) Consider the following statements with respect to 'Compressed Bio Gas'

1. It is produced naturally through a process of aerobic decomposition from waste / biomass sources
2. It is exactly similar to the commercially available natural gas in its composition and energy potential
3. Municipal solid waste, sugarcane press mud, distillery spent wash, cattle dung can be used to produce CBG

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.98) Solution (b)

Explanation:

- Bio-gas is produced naturally (through a process of anaerobic decomposition) from waste / biomass sources like agriculture residue, cattle dung, sugarcane press mud, municipal solid waste, sewage treatment plant waste, etc. **After purification, it is compressed and called CBG, which has high methane content. Hence statement 1 is not correct.**
- Compressed Bio-Gas is **exactly similar to the commercially available natural gas in its composition and energy potential.** With similar calorific value and other properties similar to CNG, Compressed Bio-Gas can be used as an alternative, renewable automotive fuel. **Hence statement 2 is correct.**
- Compressed Bio-Gas can be **produced from various biomass/waste sources**, including agricultural residue, municipal solid waste, sugarcane press mud, distillery spent wash, cattle dung and sewage treatment plant waste.
- The other waste streams, that is, rotten potatoes from cold storages, rotten vegetables, dairy plants, chicken/poultry litter, food waste, horticulture waste, forestry residues and treated organic waste from industrial effluent treatment plants (ETPs) can be used to generate biogas. Hence statement 3 is correct.



Source: [CLICK HERE](#)

Q.99) Consider the following statements with respect to 'Reserve Bank Innovation Hub (RBIH)'

1. RBIH will provide the platform to anchor a shared vision among all financial ecosystem stakeholders
2. It is a joint initiative between Ministry of Finance and Reserve Bank of India

Select the correct statement(s)

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

Q.99) Solution (a)

Explanation:

- RBIH will provide the **platform to anchor a shared vision among all financial ecosystem stakeholders and aid them in crafting forward looking innovation strategies** while addressing the most pressing issues in the Indian financial sector. The organisation serves as a focal point to position India as a global innovation hub for a network of financial services providers, fintech innovation hubs, policymakers, technologists, academia, and the investor community. **Hence statement 1 is correct.**
- The Reserve Bank Innovation Hub (RBIH) is a **wholly-owned subsidiary of the Reserve Bank of India (RBI)**. **Hence statement 2 is not correct.**

Source: [CLICK HERE](#)

Q.100) 'Sukapaika' a river seen in news is a distributary of

- a) Kosi
- b) Mahanadi
- c) Narmada
- d) Banas

Q.100) Solution (b)

Explanation:



Sukapaika is **one of the several distributaries of the mighty Mahanadi river in Odisha**. It branches away from the Mahanadi at Ayatpur village in Cuttack district and flows for about 40 kilometres (km) before rejoining its parent river at Tarapur in the same district.

Source: [CLICK HERE](#)

Q.101) Consider the following statements with respect to 'Like Minded Developing Countries (LMDC) Group'

1. They are an inter-governmental group consisting of developing countries that tend to share similar sustainable development challenges.
2. India is part of the LMDC grouping along with China and Saudi Arabia
3. They were first recognized as a distinct group of developing countries at the United Nations Conference on Environment and Development

Choose the correct answer using the code given below

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

Q.101) Solution (b)

Explanation:

- The Like Minded-Group of Developing Countries (LMDC) is a **group of developing countries who organise themselves as a block negotiators in international organizations** such as the United Nations and the World Trade Organization, they represent more than 50% of the world's population. **Hence statement 1 is not correct.**
- LMDC countries who negotiate in the United Nations Framework Convention on Climate Change fora, the members are Algeria, Bangladesh, Bolivia, China, Cuba, Ecuador, Egypt, El Salvador, India, Indonesia, Iran, Iraq, Jordan, Kuwait, Malaysia, Mali, Nicaragua, Pakistan, Saudi Arabia, Sri Lanka, Sudan, Syria, Venezuela and Vietnam. **Hence statement 2 is correct.**
- The **SIDS and not LMDC were first recognized as a distinct group of developing countries at the United Nations Conference on Environment and Development in June 1992. Hence statement 3 is not correct.**



Source: [CLICK HERE](#)

Q.102) Consider the following statements

1. Site-Directed Nuclease (SDN) genome editing involves the use of different RNA-cutting enzymes (nucleases)
2. All the SDN processes do not involve alien genetic material and the end result is indistinguishable from conventionally bred crop varieties

Select the correct statement(s)

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

Q.102) Solution (d)

Explanation:

- Site-Directed Nuclease (SDN) **genome editing** involves the **use of different DNA-cutting enzymes (nucleases)** that are **directed to cut the DNA at a predetermined location by a range of different DNA binding systems**. After the cut is made, the cell's own DNA repair mechanism recognizes the break and repairs the damage, using one of two pathways that are naturally present in cells. **Hence statement 1 is not correct.**
- **SDN 1 & SDN 2 processes do not involve alien genetic material and the end result is indistinguishable from conventionally bred crop varieties.** The SDN3 process involves larger DNA elements or full length genes of foreign origin which makes it similar to Genetically modified organisms (GMO) development. **Hence statement 2 is not correct.**

Source: [CLICK HERE](#)

Q.103) Consider the following statements with respect to 'Unlawful Activities (Prevention) Act'

1. It will apply to the offenders in the same manner even if a crime is committed outside India
2. There is a provision for default bail but normal bail rules do not apply to an accused under this Act
3. An investigating officer does not require any approval to seize properties that may be connected with terrorism under this Act



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.103) Solution (a)

Explanation:

- Under UAPA, both **Indian and foreign nationals can be charged. It will apply to the offenders in the same manner, even if a crime is committed in a foreign land, outside India. Hence statement 1 is correct.**
- The police normally have **60 to 90 days to investigate a case and submit a charge-sheet failing which the accused may obtain default bail.** However, under the UAPA, this pre-charge sheet time is extended to 180 days. Further, normal bail rules do not apply to an accused under Section 43(d)5 of the UAPA. **Hence statement 2 is correct.**
- Under the Act, **an investigating officer** is required to obtain the **prior approval of the Director General of Police to seize properties that may be connected with terrorism.** The Bill adds that if the investigation is conducted by an officer of the National Investigation Agency (NIA), the approval of the Director General of NIA would be required for seizure of such property. **Hence statement 3 is not correct.**

Source: [CLICK HERE](#)

Q.104) 'Glyphosate' considered harmful is most likely used in which one of the following?

- a) Food preservatives
- b) Plastic Manufacturing
- c) Industrial solvent
- d) Herbicides

Q.104) Solution (d)

Explanation:

Glyphosate is an herbicide. It is applied to the leaves of plants to kill both broadleaf plants and grasses. **The sodium salt form of glyphosate is used to regulate plant growth and ripen specific crops. It is widely used in plantation agriculture.**



Source: [CLICK HERE](#)

Q.105) With reference to 'Customs, Excise and Service Tax Appellate Tribunal', consider the following statements

1. CESTAT is a quasi-judicial body constituted under the Administrative Tribunals Act
2. It has the power to grant compensation owing to unlawful action of revenue authorities
3. The Tribunal also has appellate jurisdiction in Anti-Dumping matters

Choose the correct answer using the code given below

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

Q.105) Solution (b)

Explanation:

- The Customs, Excise and Service Tax Appellate Tribunal (CESTAT) is an **Indian quasi-judicial body** that hears appeals against orders and decisions passed under the Customs Act, 1962 and Central Excise Act, 1944 as amended from time to time. It was constituted as Customs, Excise and Gold (Control) Appellate Tribunal (CEGAT) **under section 129 of Customs Act, 1962. Hence statement 1 is not correct.**
- CESTAT functions with the following limitations as it **CAN NOT** – 1)grant compensation owing to unlawful action of revenue authorities2)review its own order as any quasijudicial authority cannot review its own order -3) exercise powers beyond statute as it is a creature of statute only. It cannot issue writs or grant relief which ought to be granted by high court. **Hence statement 2 is not correct.**
- The Tribunal also has **appellate jurisdiction in Anti-Dumping matters** and the Special Bench headed by the President, CESTAT, **hears appeals against the orders passed by the Designated Authority in the Ministry of Commerce. Hence statement 3 is correct.**

Source: [CLICK HERE](#)

Q.106) Consider the following statements with respect to 'CAR T-cell therapy'



1. CAR T cells can be either derived from T cells in a patient's own blood (autologous) or from another healthy donor
2. The Engineered T cells allows doctors to control the persistence or activity of the T cells in the patient's body

Select the correct statement(s)

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

Q.106) Solution (c)

Explanation:

- CAR T cells can be **either derived from T cells in a patient's own blood (autologous) or derived from the T cells of another healthy donor (allogeneic)**. Once isolated from a person, these T cells are genetically engineered to express a specific CAR, which programs them to target an antigen that is present on the surface of tumors. **Hence statement 1 is correct.**
- Adding a **synthetic control mechanism to engineered T cells allows doctors to precisely control the persistence or activity of the T cells in the patient's body**, with the goal of reducing toxic side effects.
- Current methods for controlling CAR T cells include systemic immunosuppressive agents, e.g., corticosteroids. **Hence statement 2 is correct.**

Source: [CLICK HERE](#)

Q.107) With reference to 'The Roadmap 2030', consider the following statements

1. It provides a framework for India to scale up renewable energy usage to meet climate goals
2. It is formulated by NITI Aayog in association with Ministry of Environment, Forests and Climate change

Select the correct statement(s)

- a) 1 only
- b) 2 only



- c) Both 1 and 2
- d) Neither 1 nor 2

Q.107) Solution (d)

Explanation:

- It was launched in 2021, during the **India-U.K. virtual summit**. The roadmap heralds the commencement of an '**Enhanced Trade Partnership**' between India and the United Kingdom, with goals of doubling the value of UK-India trade by 2030 and expediting the first phase of prenegotiations for a future free trade deal. **Hence statement 1 is not correct.**
- It is **not related to environment**. It was **jointly formulated by Indian and U.K. governments**. **Hence statement 2 is not correct.**

Source:

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Q.108) Consider the following statements with respect to 'Blue flag certification'

1. It is an eco-label accorded by the Foundation for Environment Education (FEE)
2. Beaches outside mainland India were awarded this certification for the first time recently
3. Blue flag certification entitles the beach administration to grants from UNEP

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.108) Solution (a)

Explanation:

- **Foundation for Environment Education in Denmark (FEE) accords the globally recognized eco-label - Blue Flag certification**. In order to qualify for this prestigious award, a series of stringent environmental, educational, safety related and access-related criteria must be met and maintained.



- The mission of Blue Flag is to promote sustainability in the tourism sector, through environmental education, environmental protection and other sustainable development practices. **Hence statement 1 is correct.**
- The **Indian beaches** in the blue list are Shivrajpur Gujarat, Ghoghla-Diu, Kasarkod and Padubidri Karnataka, Kappad-Kerala, Rushikonda- Andhra Pradesh, Golden-Odisha, Radhanagar- Andaman and Nicobar, Kovalam in Tamil Nadu and Eden in Puducherry beaches. Radhanagar beach in Andamans was the first blue flag beach outside mainland India. **Hence statement 2 is not correct.**
- The **advantages of the Blue Flag programme are many and varied**: from the primary objectives of environmental protection and education for sustainable development, to the financial rewards such accreditation brings in the form of more visitors looking for a higher level of environmental responsibility, the Blue Flag is a trusted symbol the world over. **There is no entitlement for grants from UNEP. Hence statement 3 is not correct.**

Source: [CLICK HERE](#)

Q.109) 'Research Innovation Initiative Gathering (RIIG)' seen in news is associated with

- a) G20
- b) BRICS
- c) NATO
- d) I2U2

Q.109) Solution (a)

Explanation:

Research Innovation Initiative Gathering (RIIG) is associated with G20. India highlighted that materials for sustainable energy, scientific challenges & opportunities to achieving a sustainable blue economy, biodiversity, and economy would be the major themes and topics of the Research Innovation Initiative Gathering (RIIG) during India's presidency starting from 1st December 2022.

Source: [CLICK HERE](#)

Q.110) Consider the following statements about the **Indian Data Relay Satellite System (IDRSS)**

1. It helps to track and be constantly in touch with Indian satellites, in particular to those in the low earth orbits.
2. Currently, only the US and Russia have their own data relay satellite systems.



Choose the correct code:

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

Q.110) Solution (a)

Explanation:

- The **Indian Data Relay Satellite System (IDRSS)** helps to track and be constantly in touch with Indian satellites, in particular those in **low-earth orbits**. It is an Indian geostationary data relay satellite system consisting of two geostationary satellites. IDRSS will facilitate the relay of information between various Indian spacecraft, in-flight launch vehicle monitoring, and assist Indian Human Spaceflight Programme. **Hence, statement 1 is correct .**
- Currently, the **US, Russia, China, and Europe** have their data relay satellites. **Hence, statement 2 is incorrect.**

Q.111) 'PARIMAN' a portal launched recently is related to

- a) Mining
- b) Digistack
- c) Local planning
- d) Secondary education

Q.111) Solution(c)

- NCR Geo-portal (**PARIMAN**) is a robust system to facilitate better sub-regional and **local planning**. This contains various layers collected from authentic sources. The portal has many Base Maps, Satellite Image services and Night Light Data of different time spans.
- The Portal consists of around 179 Layers presented as Line, Point & Polygon feature covering details of various sectors like Land Use, Transport, Industries, Water, Power, Health, Shelter, Heritage & Tourism, Disaster Management, etc.

Q.112) With reference to 'Red Panda', consider the following statements



1. The red panda is largely carnivorous and feeds primarily on insects and small mammals
2. Adult pandas are generally solitary ,territorial and are active during nights
3. The IUCN status of red pandas is 'Vulnerable'

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.112) Solution (b)

Explanation:

- Statement 1 – Incorrect, The red panda is **largely herbivorous and feeds primarily on bamboo**. It also feeds on fruits, blossoms, acorns, eggs, birds and small mammals. Bamboo leaves may be the most abundant food item year-round and the only food they can access during winter
- Statement 2 – Correct, Adult pandas are **generally solitary and territorial**. The red panda appears to be both nocturnal and crepuscular, sleeping in between periods of activity at night.
- Statement 3 – Incorrect, The IUCN status of red pandas is '**Endangered**'

Q.113) Consider the following statements with respect to 'Oncolytic virus'

1. An oncolytic virus is a virus that preferentially infects and kills cancer cells
2. Adenovirus, reovirus and herpes simplex virus are some of the viruses which can be potentially used as oncolytic agents

Select the correct statement(s)

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

Q.113) Solution (c)

Explanation:

- Statement 1 – Correct, An oncolytic virus is a **virus that preferentially infects and kills cancer cells**. As the infected cancer cells are destroyed by oncolysis, they release new infectious virus particles or virions to help destroy the remaining tumour.
- Statement 2 – Correct, A number of viruses including **adenovirus, reovirus, measles, herpes simplex, Newcastle disease virus, and vaccinia have been clinically tested as oncolytic agents**. Most current oncolytic viruses are engineered for tumour selectivity, although there are naturally occurring examples such as reovirus and the senecavirus resulting in clinical trials

Q.114) Consider the following statements regarding India Innovation Index(III)

1. The index is released by the NITI Aayog with the help of the Confederation of Indian Industry
2. The index is based on a cumulative average of Social capital, Investment and knowledge worker

Select the correct statement/s:

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

Q.114) Solution (d)

Explanation:

- Statement 1 – Incorrect, The **NITI Aayog in collaboration** with the **Institute for Competitiveness** developed benchmark for the innovation ecosystem among Indian States and Union territories.
- Statement 2 – Incorrect, Indicators used for ranking are :-
- *Five Enablers pillars (**Human capital , Investment, Knowledge worker, Business Environment, Safety and Legal Environment**)
- *Two Performance Pillars (**Knowledge Output, Knowledge Diffusion**).



Q.115) Consider the following statements with respect to 'Indian Antarctic Bill, 2022'

1. The bill proposes to set up Indian Antarctic Authority under the Ministry of Earth Sciences
2. India is a signatory to the Antarctic Treaty and has a consultative party status with a right to vote
3. The bill is pursuant to Canberra protocol to the Antarctic treaty

Choose the correct answer using the code give below

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

Q.115) Solution (a)

Explanation:

- Statement 1 – Correct, The Bill also proposed to set-up **Indian Antarctic Authority (IAA) under the Ministry of Earth Sciences**, which shall be the apex decision making authority and shall facilitate programmes and activities permitted under the Bill.
- Statement 2 – Correct, A total of fifty-four State Parties to the Treaty, but **twenty-nine countries have the status of Consultative Party with a right to vote** in the Antarctic Consultative Meetings and twenty-five countries are Non-Consultative Parties having no right to vote. **India signed the Antarctic Treaty on the 19th August, 1983 and received the consultative status** on the 12th September, 1983.
- Statement 3 – Incorrect, The bill is in pursuant to India's accession to Antarctic Treaty, the Protocol on **Environment Protection (Madrid Protocol)** to the Antarctic Treaty and to the Convention on the Conservation of Antarctic Marine Living Resources.

Q.116) Consider the following statements regarding 'Konark Sun Temple'

1. The temple was constructed by the Western Ganga dynasty in Kalinga style of architecture
2. It is the only sun temple in India to be declared as a UNESCO world heritage site
3. It was referred to as the 'White Pagoda' by the visiting merchants and sailors
4. The temple houses artwork consisting of all major cults like Shaktism, Vaishnavism and Shaivism

Choose the correct answer using the options given below



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

Q.116) Solution (c)

Explanation:

- Statement 1 – Incorrect, The temple is attributed to **king Narasimhadeva I of the Eastern Ganga dynasty**. The 13th Century temple is dedicated to **Hindu Sun God Surya**. The temple follows the traditional style of **Kalinga architecture**.
- Statement 2 – Correct, Out of the total **40 Indian sites** listed in UNESCO's world heritage sites, Sun temple in **Konark is the only sun temple to be listed**.
- Statement 3 – Incorrect, This **temple was called the "Black Pagoda"** in European sailor accounts as early as 1676 because it looked like a great tiered tower which appeared black. Similarly, the **Jagannath Temple in Puri was called the "White Pagoda"**. Both temples served as important landmarks for sailors in the Bay of Bengal.
- Statement 4 – Correct, The artwork inside the temple comprises of images from Shaktism, Shaivism and Vaishnavism. These include images of musicians and mythological narratives as well as sculptures of Hindu deities, including **Durga in her Mahishasuramardini aspect killing the shape-shifting buffalo demon (Shaktism), Vishnu in his Jagannatha form (Vaishnavism), and Shiva as a (largely damaged) linga (Shaivism)**.

Q.117) Consider the following statements about 'Alluri Sitarama Raju'

1. He led a non-violent resistance named the Rampa Rebellion against British rule
2. He had adopted aspects from the Non-cooperation movement, such as promoting temperance to attract people's support
3. Lord Reading was the viceroy during the Rampa Rebellion.

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.117) Solution (b)



Explanation:

- Statement 1 – Incorrect, **The Rampa Rebellion of 1922**, also known as the **Manyam Rebellion**, was a tribal uprising led by **Alluri Sitarama Raju in Godavari Agency of Madras Presidency, British India**. It was a violent rebellion which included raids on police stations, robbery and guerilla warfare.
- Statement 2 – Correct, Alluri had adopted aspects from the **Non-cooperation movement, such as promoting temperance**, and the **boycott of colonial courts** in favour of local justice, administered by panchayat courts, to attract people's support
- Statement 3 – Correct, **Lord Reading (1921 to 1926)** was the viceroy during Rampa Rebellion.

Q.118) 'IS40M' seen in news recently is related to

- a) Translation device
- b) Standard certification
- c) Oilseeds
- d) Space debris

Q.118) Solution (d)

Explanation:

The ISRO System for Safe and Sustainable Space Operations & Management (IS4OM) is ISRO's holistic approach to ensure the safety of space assets and sustaining the utilization of outer space for national development. S4OM facility will aid India in achieving its SSA (Space Situational Awareness) goals by providing a comprehensive and timely information of the Space environment to users.

Q.119) With reference to 'Bail', consider the following statements

1. The Code of Criminal Procedure defines the terms bailable offence and non-bailable offence
2. Non-bailable offences are non-cognisable which enables the police officer to arrest without a warrant
3. A Bailable offence is defined as an offence which is mentioned so in the First Schedule of the Code



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.119) Solution (c)

Explanation:

- Statement 1 – Correct, **The Code of Criminal Procedure, 1973 does not define bail**, although the terms bailable offence and non-bailable offence have been defined in section 2(a) of the Code.
- Statement 2 – Incorrect, **Non-bailable offences are cognisable**, which enables the police officer to **arrest without a warrant**. In such cases, a magistrate would determine if the accused is fit to be released on bail.
- Statement 3 – Correct, **A Bailable offence** is defined as an offence which is shown as **bailable in the First Schedule of the Code** or which is made bailable by any other law, and non-bailable offence means any other offence.

Q.120) With reference to 'Trade Infrastructure for Export Scheme (TIES) scheme', consider the following statements

1. Financial assistance in the form of grant-in-aid is provided to Central/State Government owned agencies
2. The scheme is being implemented by Directorate General of Foreign Trade

Select the correct statement(s)

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

Q.120) Solution (a)

Explanation:



- Statement 1 – Correct, under the scheme, **financial assistance in the form of grant-in-aid is provided to Central/State Government owned agencies** (or their Joint Ventures with major stake-holding by them) for setting up or up-grading export infrastructure in States/UTs.
- Statement 2 – Incorrect, **The Department of Commerce**, Government of India is implementing the Trade Infrastructure for Export Scheme (TIES) w.e.f. FY 2017-18 with the objective of assisting Central and State Government agencies in the creation of appropriate infrastructure for growth of exports.

Q.121) Consider the following statements with respect to 'Global Climate Observing System (GCOS)'

1. It is co-sponsored by the World Meteorological Organization (WMO) and the Intergovernmental Oceanographic Commission (IOC)
2. It aims to ensure that the observations and information needed to address climate-related issues are made available to all potential users

Select the correct statement(s)

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

Q.121) Solution (c)

Explanation:

- The GCOS is co-sponsored by the **World Meteorological Organization (WMO), the Intergovernmental Oceanographic Commission (IOC) of UNESCO, the United Nations Environment Programme (UNEP), and the International Council for Science (ICSU)**. GCOS regularly reports on the adequacy of the current climate observing system to the United Nations Framework Convention on Climate Change (UNFCCC)
- The Global Climate Observing System (GCOS) was established in 1992 as an outcome of the Second World Climate Conference, to **ensure that the observations and information needed to address climate-related issues are obtained and made available to all potential users.**



Source: [CLICK HERE](#)

Q.122) Consider the following statements with respect to 'Genealogical DNA test'

1. The test looks at specific locations of a person's genome in order to estimate the ethnic mixture of an individual
2. The mitochondrial-DNA test can be taken by both males and females unlike a Y-DNA test
3. Y-DNA and mtDNA tests can be used for ethnicity estimates but cannot be used to find one's haplogroup

Choose the correct answer using the code given below

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

Q.122) Solution (a)

Explanation:

- A genealogical DNA test is a DNA-based test used in genetic genealogy that **looks at specific locations of a person's genome in order to find or verify ancestral genealogical relationships**, or (with lower reliability) to estimate the ethnic mixture of an individual.
- The **mtDNA test can be taken by both males and females, because everyone inherits their mtDNA from their mother**, as the mitochondrial DNA is located in the egg cell. However, a **Y-DNA test can only be taken by a male, as only males have a Y-chromosome**.
- **Y-DNA and mtDNA cannot be used for ethnicity estimates, but can be used to find one's haplogroup**, which is unevenly distributed geographically. MtDNA and Y-DNA tests are utilized to identify archeological cultures and migration paths of a person's ancestors along a strict mother's line or a strict father's line.

Source: [CLICK HERE](#)

Q.123) Why is a plant called 'Senna spectabilis' often mentioned in news ?

- a) It's extract can be used in biodiesel production



- b) It is used in the production of technical textiles
- c) It is known to reduce biodiversity in the area where it grows
- d) It is used to produce anti-malarial drugs

Q.123) Solution (c)

Senna spectabilis was introduced as an ornamental species and for use as firewood from South and Central America, the species has become highly invasive in the Sigur plateau in both the core and buffer zones of the MTR. Over the last few years, its bright yellow flowers have become more visible across the Tiger Reserve. Conservationists say the invasive weed has a negative effect on local biodiversity, crowding out native species and limiting food availability for wildlife. Senna spectabilis, along with Lantana camara, is among five major invasive weeds that had taken over vast swathes of the Nilgiris, with wattle being the other major invasive species.

Source: [CLICK HERE](#)

Q.124) Consider the following statements with respect to 'Ganges River Dolphin'

1. It is a fresh-water species and has been recognized as the National Aquatic Animal of India
2. They are known to do acrobatic maneuvers when they're distressed and use echolocation to find food
3. Supreme Court of India granted non-human personhood these dolphins which prevent captivity for entertainment

Choose the correct answer using the code given below

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

Q.124) Solution (d)

Explanation:

- The Gangetic Dolphin is a **fresh-water species, and one of the few river dolphins found in the world. The Gangetic Dolphin has been recognized as India's National Aquatic Animal** and is the official animal of the Indian city of Guwahati.



- The Ganges river dolphins usually come in pairs or **they're just single and are not known to do acrobatic maneuvers near boats or when they're distressed**. Little is known about their behavior because they are usually shy around boats and are hard to observe. **Ganges river dolphins use echolocation to find food.**
- India's **Ministry of Environment and Forests declared dolphins 'nonhuman persons'** and as such has forbidden their captivity for entertainment purposes; keeping dolphins in captivity must satisfy certain legal prerequisites.

Source: [CLICK HERE](#)

Q.125) Consider the following statements with respect to 'World Cities Day'

1. This day was designated by UN-Habitat and a global observance is held in a different city each year
2. It aims to promote the international community's interest in global urbanization and sustainable urban development

Select the correct statement(s)

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

Q.125) Solution (b)

Explanation:

- The **United Nations General Assembly designated 31 October as World Cities Day**, by its resolution 68/239. As with World Habitat Day, **a global observance is held in a different city each year and the day focuses on a specific theme.**
- The Day is expected to greatly **promote the international community's interest** in global urbanization, push forward cooperation among countries in meeting opportunities **addressing challenges of urbanization and contributing to sustainable urban development** around the world.

Source: [CLICK HERE](#)



Q.126) 'Deinococcus Radiodurans' a bacteria seen in news recently finds usage in

1. Bio-remediation
2. Synthesis of precious metals
3. Nitrification
4. Vaccine development
5. Space research

Choose the correct answer using the code given below

- a) 1, 2 and 4 only
- b) 1, 3 and 4 only
- c) 1, 2 and 5 only
- d) All the above

Q.126) Solution (c)

Deinococcus radiodurans is an extremophilic bacterium and one of the most radiation-resistant organisms known. It can survive cold, dehydration, vacuum, and acid, and therefore is known as a polyextremophile. **D. radiodurans been genetically modified for bioremediation applications. A nanotechnological application of D. radiodurans in the synthesis of silver and gold.** Researchers simulated the harsh ionising radiation on Mars in a new study where they found that Deinococcus Radiodurans could potentially survive close to the surface of the planet much longer than previously thought. They **haven't been used in vaccine development and nitrification as yet.**

Source: [CLICK HERE](#)

Q.127) Consider the following statements with respect to 'Coronal holes'

1. These are regions on the sun's surface where radiation is absorbed from the solar atmosphere
2. The holes are a unique phenomenon which appear rarely in the sun's solar cycle

Select the correct statement(s)

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



d) Neither 1 nor 2

Q.127) Solution (d)

Explanation:

- **These are regions on the sun's surface from where fast solar wind gushes out into space.** Because they contain little solar material, they have lower temperatures and thus appear much darker than their surroundings. The magnetic field is open to interplanetary space, sending solar material out in a high-speed stream of solar wind. Coronal holes can last between a few weeks to months.
- **The holes are not a unique phenomenon, appearing throughout the sun's approximately 11-year solar cycle.** They can last much longer during solar minimum – a period of time when activity on the Sun is substantially diminished, according to NASA.

Source: [CLICK HERE](#)

Q.128) Consider the following statements with respect to 'Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR)-cas9 technology'

1. CRISPR is a family of DNA sequences found in the genomes of eukaryotic organisms such as animals and plants
2. Cas9 enzyme acts as molecular scissors to cut DNA at a location specified by a guide RNA and binds to the target DNA
3. CRISPR-Cas9 technology does not work at very low temperatures and disengages from the cleaved-DNA products after the enzyme does the job

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.128) Solution (b)

Explanation:

- **CRISPR (Clustered Regularly Interspaced Short Palindromic Repeats) are short DNA sequences found in the genome of prokaryotic organisms such as bacteria, which are**



reminders of previous bacteriophage (viruses) attacks that the bacteria successfully defended against.

- **Cas9 enzyme acts as molecular scissors to cut DNA at a location specified by a guide RNA, can bind to and cut the target DNA at very low temperatures.** Cas9 (or "CRISPR-associated protein 9") is an enzyme that uses CRISPR sequences as a guide to recognize and cleave specific strands of DNA that are complementary to the CRISPR sequence.
- Scientists of Raman Research Institute (RRI) have demonstrated that the **Cas9 enzymes strongly bind to the target at very low temperatures and remains bound to the cleaved DNA products** even after the enzyme has done its job.

Source: [CLICK HERE](#)

Q.129) Consider the following statements with respect to 'Indian Ocean Rim Association'

1. It is a regional forum bringing together representatives of Government, Business and Academia
2. The Western Indian Ocean Marine Science Association and the Indian Ocean Naval Symposium have observer status at the IORA
3. IORA's apex body is the Council of Foreign Ministers (COM) which meets annually

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.129) Solution (c)

Explanation:

- The Indian Ocean Rim Association (IORA) is an international organisation consisting of 23 states bordering the Indian Ocean. The IORA is a **regional forum, tripartite in nature, bringing together representatives of Government, Business and Academia, for promoting co-operation and closer interaction among them.**
- **The Indian Ocean Research Group (IORG) and Western Indian Ocean Marine Science Association (WIOMSA) are observers at IORA**



- **IORA's apex body is the Council of Foreign Ministers (COM) which meets annually.** A committee of Senior Officials (CSO) meets twice a year to progress IORA's agenda and consider recommendations by Working Groups and forums of officials, business and academics to implement policies and projects to improve the lives of people within the Indian Ocean Member States.

Source: [CLICK HERE](#)

Q.130) With reference to 'Cordy gold nanoparticles (Cor-AuNPs)', consider the following statements

1. These nanoparticles could make drug delivery in the human body slower and surer
2. Cordyceps militaris, parasitic fungus used in the manufacture of these nanoparticles is found extensively in Eastern Ghats

Select the correct statement(s)

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

Q.130) Solution (a)

Explanation:

- Cordy gold nanoparticles (Cor-AuNPs) is the outcome of a collaborative experiment by scientists from four Indian institutions, has earned an international patent from Germany. **These nanoparticles, derived from the synthesis of the extracts of Cordyceps militaris and gold salts, could make drug delivery in the human body faster and surer.**
- **Cordyceps militaris a high value parasitic fungus, is called super mushroom because of its tremendous medicinal properties,** adds bioactive components to the synthesis of gold nanoparticles for better penetration. Gold salts are ionic chemical compounds of gold generally used in medicine. **Wild Cordyceps mushroom is found in the eastern Himalayan belt.**

Source: [CLICK HERE](#)



Q.131) Consider the following statements with respect to India Infrastructure Project Development Fund (IIPDF)

1. It aims to provide financial support for Public Private Partnership (PPP) project and its development activities.
2. It was notified by the Department for Promotion of Industry and Internal Trade (DPIIT) under the Ministry of Commerce and Industry

Select the correct statement(s)?

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

Q.131) Solution (a)

Explanation:

- India Infrastructure Project Development Fund Scheme (**IIPDF Scheme**) will aid **development of quality PPP projects by providing necessary funding support** to the project sponsoring authorities, both in the Central and State Governments
- The **Department of Economic Affairs (DEA), Ministry of Finance**, Government of India, notified Scheme for Financial Support for Project Development Expenses of PPP Projects – India Infrastructure Project Development Fund Scheme (IIPDF Scheme)

Source: [CLICK HERE](#)

Q.132) Consider the following statements with respect to 'Global Programme to End Child Marriage'

1. It promotes adolescent girls to avert marriage and pregnancy to achieve their aspirations through education.
2. It is a joint initiative of the UN-Women and the United Nations International Children's Emergency Fund
3. The Programme works in countries like Bangladesh, Burkina Faso, Ethiopia, Ghana and Yemen



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.132) Solution (c)

Explanation:

- The UNFPA-UNICEF Global Programme to End Child Marriage **promotes the rights of adolescent girls to avert marriage and pregnancy**, and enables them to achieve their aspirations through education and alternative pathways.
- It is a joint initiative of **United Nations Population Fund (UNFPA) and United Nations Children's Fund (UNICEF)**. It aims to End Child Marriage has been implemented since 2016 across 12 countries in Africa, Middle East and South Asia.
- The UNFPA-UNICEF Global Programme to End Child Marriage works in **Bangladesh, Burkina Faso, Ethiopia, Ghana, India, Mozambique, Nepal, Niger, Sierra Leone, Uganda, Yemen and Zambia**.

Source: [CLICK HERE](#)

Q.133) Consider the following statements with respect to Dynamic Composite Risk Atlas (DCRA)

1. This tool is for static pre-event planning and dynamic response for cyclone prone States/UTs.
2. It is developed by the India Meteorological Department (IMD) in collaboration with Indian Space Research Organization (ISRO)

Select the INCORRECT statement(s)?

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

Q.133) Solution (b)



Explanation:

- Dynamic Composite Risk Atlas (DCRA) is a tool mainly for **static pre-event planning and dynamic response (responding to a real-time cyclone) for cyclone prone States/UTs**. This system includes development of Probabilistic Risk Assessment Maps / Products for depiction of cyclone risk and storm surge flooding / coastal flooding vulnerability maps for the coastline of India.
- It is developed by **National Disaster Management Authority (NDMA) in collaboration India Meteorological Department (IMD)**

Source: [CLICK HERE](#)

Q.134) 'Mauna Loa' a volcano seen in news recently is located in

- a) Indonesia
- b) Hawaii
- c) Italy
- d) Japan

Q.134) Solution (b)

Mauna Loa is one of five volcanoes that together make up the Big Island of Hawaii, which is the southernmost island in the Hawaiian archipelago. It's not the tallest (that title goes to Mauna Kea) but it's the largest and makes up about half of the island's land mass. Mauna Loa last erupted 38 years ago.

Source: [CLICK HERE](#)

Q.135) Consider the following pairs

Dance form: State

1. Raut Nacha: Chattisgarh
2. Nati: Uttarakhand
3. Fugdi: Punjab
4. Dumhal: Sikkim



How many pair/pairs given above are correctly matched?

- a) Only one pair
- b) Only two pairs
- c) Only three pairs
- d) All the pairs

Q.135) Solution (a)

Raut Nacha	Chhattisgarh
Nati	Himachal Pradesh
Fugdi	Goa
Dumhal	Jammu and Kashmir

Source: [CLICK HERE](#)

Q.136) Consider the following statements with respect to World Heritage Glaciers

1. UNESCO World Heritage sites are home to glaciers representing almost 10% of the Earth's total glacierized area
2. The Khumbu Glacier in Mount Kangchenjunga is part of the world's highest glacier system

Select the correct statement(s)?

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

Q.136) Solution (a)

Explanation:

- **50 UNESCO World Heritage sites are home to glaciers representing almost 10% of the Earth's total glacierized area.** They include the highest (next to Mt. Everest), the longest (in Alaska), and the last remaining glaciers in Africa, amongst others, giving a representative overview of the general situation of glaciers in the world.
- **The Khumbu Glacier located in the Mount Everest base camp** in Sagarmatha National Park (Nepal), is part of the world's highest glacier system.



Source: [CLICK HERE](#)

Q.137) With reference to 'Shilp Guru Awards', consider the following statements

1. The Shilp Guru Awards are given to legendary master craftspersons for the role played by them in the continuance of crafts as a vital part of traditional heritage
2. These Awards will be conferred every year by the Ministry of Culture
3. These awards were instituted in 2022 as part of Azadi ka Amrit Mahotsav

Choose the correct answer using the code given below

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

Q.137) Solution (a)

Explanation:

- The Shilp Guru Awards are given to **legendary master craftspersons in recognition of excellent craftsmanship, product excellence and the role played by them as gurus in the continuance of crafts** to other trainee artisans as a vital part of traditional heritage.
- The Office of the Development Commissioner (Handicrafts) has been implementing the scheme of National Awards for master craftspersons since 1965 and Shilp Guru Awards was introduced in 2002. It is an **office under the Ministry of Textiles**
- The **Awards were started in 2002**, to celebrate the Golden Jubilee of the resurgence of Handicrafts in India.

Source: [CLICK HERE](#)

Q.138) Consider the following statements with respect to 'Mother Tongue Survey of India'

1. It is a comprehensive survey which documents the mother tongue of all the citizens of the country
2. The survey was carried out by the Ministry of Home Affairs

Select the correct statement(s)



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

Q.138) Solution (b)

Explanation:

- The Mother Tongue Survey of India is a project **that surveys the mother tongues which are returned consistently across two and more Census decades**. It also documents the linguistic features of the selected languages.
- It was recently **completed by the Ministry of Home Affairs**. The report states that the NIC and the National Film Development Corporation (NFDC) will be documenting and preserving the linguistic data of the surveyed mother tongues in audio-video files.

Source: [CLICK HERE](#)

Q.139) With reference to 'Low-Earth Orbit Flight Test of an Inflatable Decelerator (LOFTID) Technology', consider the following statements

1. It is an initiative of ISRO in collaboration with Russia's ROSCOSMOS for Mission Gaganyaan
2. It could potentially be used for bringing back rocket assets after they are launched
3. It creates more aerodynamic drag which helps in slowing down the spacecraft.

Choose the correct answer using the code given below

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

Q.139) Solution (c)

Explanation:

- LOFTID mission is a partnership between **NASA's Space Technology Mission Directorate and United Launch Alliance (ULA)**.



- It could **potentially be used for bringing back rocket assets** after they are launched. It could be used to bring back massive objects back from Earth's orbit, like items from the International Space Station.
- when a spacecraft or anything else enters a planet's atmosphere, drag acts upon the body and slows it down-converting kinetic energy into heat. **The large size of the HIAD device means that it creates more drag and starts the deceleration process higher** in the atmosphere than traditional aeroshells.

Source: [CLICK HERE](#)

Q.140) 'Apis Karinjodian' seen in news recently is a species of

- a) Butterflies
- b) Honeybees
- c) Amphibians
- d) Orchid

Q.140) Solution (b)

A new species of endemic honeybee named **Apis karinjodian or Indian black honeybee**, has been discovered in the Western Ghats, taking the species of honeybees in the world to 11. The distribution of Apis karinjodian ranges from the central Western Ghats and Nilgiris to the southern Western Ghats, covering the States of Goa, Karnataka, Kerala and Tamil Nadu

Source: [CLICK HERE](#)

Q.141) Consider the following statements with respect to 'Dynamic Ground Water Resource Assessment 2022'

1. The Assessment is carried out at periodical intervals jointly by The Energy and Resources Institute and States/UTs.
2. Total annual groundwater recharge has increased and rainfall is the major contributor as per the findings of the report

Select the correct statement(s)

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



d) Neither 1 nor 2

Q.141) Solution (b)

Explanation:

- The Assessment is carried out at **periodical intervals jointly by Central Ground Water Board and States/UTs.**
- **Total annual GW recharge has increased (437.6 bcm) and rainfall contributes to nearly 61 % in this.** The total annual ground water recharge is 437.60 Billion Cubic Meters (BCM) and the annual ground water extraction is 239.16 BCM. Assessment indicates an increase in ground water recharge.

Source: [CLICK HERE](#)

Q.142) Consider the following statements with respect to 'E-waste (management) rules 2022'

1. These rules apply to every manufacturer, producer refurbisher, user, dismantler and recycler of e-waste
2. Producers of electronic goods have to ensure at least 60% of their electronic waste is collected and recycled by 2023
3. It mandates that every producer of electronic components shall ensure that their products do not contain lead, mercury and other hazardous substances

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.142) Solution (b)

Explanation:

- These rules apply to **every manufacturer, producer refurbisher, dismantler and recycler involved in manufacture, sale, transfer, purchase, refurbishing, dismantling, recycling and processing of e-waste** or electrical and electronic equipment listed in Schedule I,



including their components, consumables, parts and spares which make the product operational.

- **Producers of electronic goods have to ensure at least 60% of their electronic waste is collected and recycled by 2023** with targets to increase them to 70% and 80% in 2024 and 2025, respectively.
- It mandates that every producer of EEE and their components shall ensure that their **products do not contain lead, mercury and other hazardous substances beyond the maximum prescribed concentration**

Source: [CLICK HERE](#)

Q.143) With reference to 'Forest and Climate Leaders' Partnership (FCLP)', consider the following statements

1. It aims to unite action by governments, businesses and community leaders from across the globe to scale up action to halt forest loss and land degradation by 2030.
2. It was launched at the recently held COP 27 in Glasgow with India being one of the founding members

Select the INCORRECT statement(s)

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

Q.143) Solution (b)

Explanation:

- **FCLP aims to unite action by governments, businesses and community leaders** from across the globe to scale up action to implement a commitment made at COP26 to **halt forest loss and land degradation by 2030**.
- FCLP is a voluntary partnership of 26 countries. It was launched by world leaders including the EU Commission President, UK Prime Minister and the leaders of France, Ghana, Congo, Colombia, and Germany at **COP 27. India is not a part of FCLP**

Source: [CLICK HERE](#)



Q.144) In which one of the following groups are all the four countries members of East Asia Summit?

- a) Brunei, Malaysia, Thailand and Canada
- b) Australia, Singapore, Mongolia and India
- c) Indonesia, New Zealand, Vietnam and Russia
- d) Philippines, South Korea, Sri Lanka and United States

Q.144) Solution (c)

The members of EAS are Australia, Brunei, Cambodia, China, India, Indonesia, Japan, Laos, Malaysia, Myanmar, New Zealand, Philippines, Russia, Singapore, South Korea, Thailand, United States, Vietnam.

Source: [CLICK HERE](#)

Q.145) Consider the following statements with respect to the Carbon Border Adjustment Tax

1. A carbon border tax is an import duty based on the amount of carbon emissions produced by the goods
2. It is proposed by the World Trade Organisation (WTO) and aims to tax products that are extremely carbon intensive
3. India does not levy an explicit carbon price.

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.145) Solution (b)

Explanation:

- A carbon border tax is an **import duty based on the amount of carbon emissions** produced by the goods in question. It discourages emissions as a carbon price, and it has an impact on production and exports as a trade-related measure.



- The **European Union** has proposed a policy, called the Carbon Border Adjustment Mechanism. It aims to tax products such as cement and steel **that are extremely carbon intensive, with effect from 2026.**
- **India does not levy an explicit carbon price.**

Source: [CLICK HERE](#)

Q.146) Consider the following statements about 'Methane Alert and Response System (MARS)'

1. It is an initiative of UNFCCC that will integrate data from a large number of observatories across the world that have the ability to detect methane emission events
2. MARS will alert governments, companies and operators about large methane sources to foster rapid mitigation action of this potent gas

Select the correct statement(s)

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

Q.146) Solution (b)

Explanation:

- MARS will integrate **data from a large number of existing and future satellites that have the ability to detect methane emission events** anywhere in the world, and send out notifications to the relevant stakeholders to act on it. It is a data-to-action platform set up as part of the **UNEP International Methane Emissions Observatory (IMEO)** strategy
- **MARS will alert governments, companies and operators about large methane sources to foster rapid mitigation action of this potent gas.** The data-to-action platform was set up as part of the UN Environment Programme's (UNEP) International Methane Emissions Observatory (IMEO) strategy to get policy-relevant data into the right hands for emissions mitigation.

Source: [CLICK HERE](#)

Q.147) Consider the following statements with respect to 'Earth Observation Satellite-6 (EOS-6)'



1. The Earth observing mission was placed in the geosynchronous orbit by PSLV (Polar Satellite Launch Vehicle)
2. It is expected to provide improved accuracy in daily monitoring of phytoplankton, ocean carbon uptake, harmful algal bloom alerts, and climate studies
3. The satellite will have the capability to make concurrent measurements of Ocean Colour, Sea surface and underwater temperatures and Sea Surface Winds

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.147) Solution (b)

Explanation:

- The third generation Indian satellite for monitoring the oceans, formally named as Earth Observation Satellite-6 (EOS-6) was launched aboard the **proven launch vehicle PSLV (Polar Satellite Launch Vehicle) on its 56th flight (24th flight of the PSLV-XL version)**. The Oceansat-3 was placed in the **polar orbit at the height of about 740 kilometers** above sea level.
- The OCM-3 with **high signal-to-noise ratio** is expected to **provide improved accuracy in daily monitoring of phytoplankton having wide range of operational and research applications including fishery resource management**, ocean carbon uptake, harmful algal bloom alerts, and climate studies.
- The **satellite will have the capability to make concurrent measurements of Ocean Colour, Sea Surface Temperature and Sea Surface Winds**, and is expected to provide a great boost to the ocean observing capabilities of the global scientific and operational communities in addressing the Ocean Decade objectives and challenges. **It cannot provide underwater sea temperature**

Source: [CLICK HERE](#)

Q.148) Consider the following statements with respect to 'United Nations Country Team (UNCT)'



1. The United Nations Country Team (UNCT) exists in all the member countries of the United Nations
2. The UNCT is led by the UN Resident Coordinator, who is the representative of the UN Secretary-General at UN regional groups

Q.148) Solution (d)

Explanation:

- The United Nations Country Team (UNCT) exists in 132 countries, covering all of the 162 countries where there are United Nations programmes.
- The UNCT is led by the UN Resident Coordinator, who is the representative of the UN Secretary-General in a given country. The UN Resident Coordinator (RC) is the highest-ranking representative of the UN Development System at the country level. RCs lead UN Country Teams and coordinate UN support to countries in implementing the 2030 Agenda.

Source: [CLICK HERE](#)

Q.149) Consider the following statements with respect to the Environmental DNA (eDNA)

1. It is the genetic material obtained from the fossils and dead species.
2. It originates from cellular material shed by organism into their surroundings.
3. eDNA - based molecular methods is used to detect invasive species in aquatic ecosystem.

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.149) Solution (d)

Explanation:



- It is defined as the **genetic material obtained directly from environmental samples (Soil, sediment, water, etc.) without any obvious signs of the biological source material.** It is an efficient, non-invasive and easy-to-standardise sampling approach.
- It **originates from cellular material shed by organisms (via skin, excrement, etc.) into aquatic or terrestrial environments.**
- Coupled with sensitive, cost-efficient and ever-advancing **DNA sequencing technology, the technique is increasingly being used for biodiversity monitoring**

Source: [CLICK HERE](#)

Q.150) 'Koronivia Joint Work' seen in news is used in the context of

- a) Carbon trading
- b) Agriculture
- c) Wetland conservation
- d) Plastic usage

Q.150) Solution (b)

Koronivia Joint Work on Agriculture (KJWA) aims to recognise the unique potential of agriculture in tackling climate change. It was established at the 23rd Conference of the Parties (COP) in Fiji as a new process to advance discussions on agriculture in the United Nations Framework Convention on Climate Change (UNFCCC). The joint work will address six topics related to soils, nutrient use, water, livestock, methods for assessing adaptation, and the socio-economic and food security dimensions of climate change across the agricultural sectors.

Source: [CLICK HERE](#)