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December CA MCQs

Q1. Which of the following statements about Kashi Tamil Sangam is/are correct?

1. It is conducted by Ministry of Culture.
2. It fosters people-to-people connections between North and South India.
3. It focuses on shared traditions in language, literature, music, dance, spirituality, and education.

Options:

- A. 1 and 2 only
- B. 2 and 3 only
- C. 1 only
- D. All of the above

Answer: B

Explanation: It is conducted by **Ministry of Education** in collaboration with **IIT Madras, Banaras Hindu University (BHU)** and other organizations.

- Aims to **celebrate, reaffirm and rediscover** the *age-old cultural and civilizational linkages* between **Kashi (Varanasi)** and **Tamil Nadu**.

Q2. Consider the following statements regarding Sujalam Bharat Summit 2025.

1. The summit is under the Ministry of Earth & Sciences.
2. Rejuvenation of Rivers and Springs, Greywater Management, Technology-driven Water Management are few of the critical areas being focused by the mission.

How many of these statements is/are correct?

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: B

Explanation:

- The **Ministry of Jal Shakti** is the host for the **Vision for Sujalam Bharat Summit 2025** in New Delhi.
- To accelerate **water sustainability** in India by promoting **evidence-based policy making, sectoral reforms, and cooperative federalism** in **water governance**.
- **Encompasses 6 critical thematic areas:** Rejuvenation of Rivers and Springs, Greywater Management, Technology-driven Water Management, Water Conservation, Sustainable Drinking Water Supply, Community Engagement.

Q3. Which of the following statements about liquid Helium is/are incorrect:

1. It has no usage in quantum computing.
2. Helium turns into liquid helium at its extremely high boiling point.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation: **Helium** turns into **liquid helium** at its extremely low boiling point (-268.93°C),

creating the **cryogenic conditions** needed for **superconductivity, superfluidity, and quantum computing**, crucial for **quantum research**.

Q4. Which of the following statements is/are correct:

1. India has high R&D expenditure to GDP ratio.
2. Industry-academia disconnect is one of the main bottlenecks for R&D growth.
3. Low expenditure in R&D influences brain drain.

Options:

- A. 1 and 2 only
- B. 2 and 3 only
- C. 1 only
- D. All of the above

Ans: B

Explanation: India's gross expenditure on R&D (GERD) was about **0.64–0.66% of GDP** in the latest published years (2018–19 to 2020–21). (Israel approx. 6% of GDP). Industry Academia disconnect hampers lab to land functions for innovations. Low expenditure leads to low financial benefits and poor infra for researches which induces brain drain.

Q5. Consider the following statements regarding MH60R Helicopter:

1. Russia is the supplier for MH60R to Indian Navy.
2. It is an advanced, all-weather, multi-role platform with anti-submarine warfare (ASW) capability, crucial for India's maritime security.

How many of these statements is/are correct?

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: B

Explanation: India has signed **Letters of Offer and Acceptance (LOAs)** worth Rs 7,995 crore with **the USA** for five-year sustainment support of the **Indian Navy's MH-60R multi-role helicopters**.

Q6. Which of the following statements is/are correct?

1. For Bioremediation only synthetic materials are used.
2. In in-situ process treatment occurs **at the contamination site**.
3. Bioventing involves supply of air/nutrients to stimulate microbes.

Options:

- A. 1 and 2 only
- B. 2 and 3 only
- C. 3 only
- D. All of the above

Ans: B

Explanation: **Bioremediation** is the use of **microorganisms, plants, or enzymes** to detoxify, degrade, or remove pollutants from soil, water, or air. This means living organisms are used in bioremediation.

Q7. Consider the following statements regarding GPS Spoofing.

1. GPS Spoofing is the act of sending fake GPS signals to a receiver to mislead it into calculating an incorrect location, time, or velocity
2. GPS Spoofing cannot affect aviation sector.

How many of these statements is/are correct?

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Key Sectors Affected by GPS Spoofing: **Aviation** – Aircraft navigation errors, **Maritime** – Ships diverted from actual routes, **Military Assets** – Drones misdirected; missile guidance disrupted, **Civil Infrastructure** – Banking, telecom, power grids (GPS time sync), **Vehicles & UAVs** – Self-driving and civilian drones vulnerable.

Q8. Which of the following statements about Rare Earth Elements (REEs) is/are incorrect:

1. All the Rare Earth Elements (REEs) are metals.
2. India is the largest producer of REE in the world.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: B

Explanation: All rare-earth elements (REEs) are **metals**. They are a group of 17 metallic elements in the periodic table.

China is the largest producer of REE.

Q9. Which of the following statements is/are correct?

1. National Clean Air Programme was launched by the Ministry of Environment, Forests and Climate Change (MoEFCC).
2. It has a target of a 40% reduction in particulate matter concentration, by 2026.
3. India's Air Quality Index (AQI) is determined by four key pollutants.

Options:

- A. 1 and 2 only
- B. 2 and 3 only
- C. 1 only
- D. All of the above

Ans: A

Explanation: India's Air Quality Index (AQI) is determined by eight key pollutants: PM₁₀, PM_{2.5}, Nitrogen Dioxide (NO₂), Sulphur Dioxide (SO₂), Carbon Monoxide (CO), Ozone (O₃), Ammonia (NH₃), Lead (Pb).

Q10. Consider the following statements regarding Heron Mk II UAV:

1. Heron MKII is developed by DRDO.
2. Its operational ceiling is beyond 50,000 ft
3. It works on the principle of Beyond-line-of-sight operations via SATCOM

How many of these statements is/are correct?

- A. 1 and 3 Only
- B. Only 3
- C. 2 and 3 only
- D. None of the above

Ans: B

Explanation: Heron Mk II is a Medium-Altitude Long-Endurance (MALE) Unmanned Aerial Vehicle developed by Israel Aerospace Industries (IAI). Operational Ceiling: ~ 35,000 ft

Range: Beyond-line-of-sight operations via SATCOM

Q11. Which of the following statements is/are correct?

1. DRDO successfully conducted a high-speed rocket-sled test of a fighter aircraft escape (ejection) system.
2. This places India among a select group of nations with in-house capability to conduct advanced escape-system testing
3. It ensures safer bailout for fighter pilots in emergencies

Options:

- A. 1 and 2 only
- B. 2 and 3 only
- C. 3 only
- D. All of the above

Ans: D

Explanation: DRDO successfully conducted a high-speed rocket-sled test of a fighter aircraft escape (ejection) system.

Collaborators: The test was conducted by DRDO in collaboration with Aeronautical Development Agency (ADA) and Hindustan Aeronautics Limited (HAL).

Defence self-reliance: Reduces dependency on foreign companies for ejection systems, boosting indigenous aerospace capabilities.

Q12. Consider the following statements regarding Masala Bonds.

1. Masala Bonds are dollar-denominated bonds issued overseas by Indian entities to raise funds.
2. It was first issued globally by International Finance Corporation
3. It transfers currency risk to investor.

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 2 and 3 Only
- C. All of the above
- D. None of the above

Ans: B

Explanation: Masala Bonds are rupee-denominated bonds. Investor bears currency risk, unlike ECBs where Indian borrowers carry forex risk.

Q13. Which of the following statements about Aircraft Hansa-3 NG is/are incorrect:

1. It is a single-seater, next-generation, all-composite trainer aircraft.
2. It is designed and developed by CSIR–National Aerospace Laboratories (NAL).

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Hansa-3 NG is a two-seater, next-generation, all-composite trainer aircraft designed for Private Pilot Licence (PPL) and Commercial Pilot Licence (CPL) training.

Developed by: Designed and developed by CSIR–National Aerospace Laboratories (NAL), Bengaluru.

Built with a lightweight composite airframe, making the aircraft durable, fuel-efficient and easier to maintain.

Q14. Which of the following statements is/are correct:

1. India is a founding State Party of Biological Weapons Convention.
2. India hosted 50th anniversary conference.
3. It prohibits the development, production, stockpiling, acquisition, transfer and use of biological and toxin weapons.

Options:

- A. 1 and 2 only
- B. 2 and 3 only
- C. 1 only
- D. All of the above

Ans: D

Explanation: All the statements are correct.

Q15. Consider the following statements:

1. Nuclear reactors can produce constant power for 10–15 years, enabling space missions of longer duration.
2. Nuclear energy has significant safety & environmental Concerns.

How many of these statements is/are correct?

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation: Nuclear reactors can produce constant power for 10–15 years, enabling missions but has safety and environmental risks.

Q16. Which of the following statements is/are correct?

1. EKUVERIN is a joint military exercise between the Indian and the Maldives.
2. 14th edition has commenced near Chennai.
3. It is aligned with India's Neighbourhood First policy

Options:

- A. 1 and 3 only
- B. 2 and 3 only
- C. 3 only
- D. All of the above

Ans: A

Explanation: 14th edition of the **Joint Military Exercise, EKUVERIN**, between the Indian Army and the Maldives National Defence Force (MNDF) commenced in Thiruvananthapuram, Kerala.

Q17. Consider the following statements regarding Economic Census.

1. India will carry out its 8th Economic Census (EC) in 2027.
2. It will be carried out by Ministry of Commerce and Industries.
3. 8th EC will be used to create the Statistical Business Register (SBR), a unified database mapping **all enterprises across states**.

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 3 only

Ans: B

Explanation: It is being carried out by MoSPI (Statistics and Programme Implementation).

Q18. Which of the following statements about International Maritime Organization (IMO) Council is/are incorrect:

1. IMO is a specialized agency of the World Bank, established to regulate global shipping.
2. All the members of UN are party to IMO.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation: It is under the UN. It currently has **176 Member States (UN has 193 members)**.

Q19. Which of the following statements is/are correct:

1. NASA has recently discovered a well-structured spiral galaxy named **Alaknanda**.

2. It dates back to just **1.5 billion years after the Big Bang.**

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: B

Explanation: Researchers at **National Centre for Radio Astrophysics - Tata Institute of Fundamental Research (NCRA-TIFR), Pune**, have discovered a well-structured spiral galaxy named **Alaknanda**. It dates back to just **1.5 billion years after the Big Bang**. Alaknanda is located about **12 billion light-years** away and shows a **textbook spiral structure**.

Q20. Consider the following statements:

1. Code on Wages (2019) universalizes minimum wages and timely payment for all workers.
2. Industrial Relations Code (2020) governs trade unions, industrial disputes, and hiring–firing norms.

How many of these statements is/are correct?

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation: Brief Overview of the Labour Codes

1. Code on Wages (2019)

- Universalizes **minimum wages** and **timely payment** for all workers.
- Introduces a **National Floor Wage**.

2. Industrial Relations Code (2020)

- Governs trade unions, industrial disputes, and hiring–firing norms.
- Introduces **fixed-term employment** and changes thresholds for lay-offs and retrenchment.

3. OSHWC Code (2020)

- Consolidates laws relating to working conditions, health and safety.
- Applies to factories, mines, docks, plantations, and certain gig sectors.

4. Social Security Code (2020)

- Extends social security to **gig and platform workers, unorganized workers, and fixed-term employees**.

Includes PF, ESI, maternity, and disability benefits.

Q21. Which of the following statements is/are correct?

1. Electronic system for automatic toll deduction without stopping at toll plazas.
2. It is GNSS (Global Navigation Satellite System) based ETC system within the existing

FASTag ecosystem.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation: Electronic system for automatic toll deduction without stopping at toll plazas. Based on **RFID (Radio Frequency Identification)** technology.

It is GNSS (Global Navigation Satellite System) based ETC system **within the existing FASTag ecosystem.**

Significance of GNSS based ETC

- Barrier less free-flow tolling and distance-based tolling, thus reducing congestion.
- Help to plug leakages and check toll evaders.
- Modernization in toll collection systems in lines with global practices.

Q22. Consider the following statements regarding Postal UPI (DHRUVA)

1. It is based on **Address-as-a-Service (AaaS)**.
2. Each grid is assigned a unique 12-character alphanumeric code.
3. Unlike traditional Pincodes (or descriptive addresses), DIGIPIN gives **location-level precision** — down to a $\sim 4\text{ m} \times 4\text{ m}$ square

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 3 only

Ans: B

Explanation: Each grid is assigned a **unique 10-character alphanumeric code** (based on latitude-longitude).

Q23. Which of the following statements about Hornbill Festival is/are incorrect:

1. It is state festival of Manipur.
2. It promotes heritage, culture, dance, music, crafts, cuisine, and tribal diversity.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: It is a festival from Nagaland and not Manipur

Q24. Which of the following statements is/are correct:

1. PM-WANI is launched to widen India's internet connectivity.
2. It boost digital inclusion, last-mile connectivity, and ease of doing business for small entrepreneurs.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation: Prime Minister Wi-Fi Access Network Interface (PM-WANI).

Launched by: Department of Telecommunications (DoT), 2020.

Objective:

- To provide affordable, decentralized, and public Wi-Fi hotspots across India.
- Boost digital inclusion, last-mile connectivity, and ease of doing business for small entrepreneurs.

Q25. Consider the following statements:

1. Bioterrorism refers to the accidental release of biological agents
2. The WHO describes it as one of the most complex non-traditional security threats.
3. Rise of synthetic biology has influenced bio terrorism.

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 2 and 3 Only
- C. All of the above
- D. 3 only

Ans: B

Explanation: Bioterrorism refers to the deliberate release of biological agents—bacteria, viruses, fungi, or toxins—to cause illness, death, panic, or societal disruption. The WHO describes it as one of the **most complex non-traditional security threats**, especially with the rise of synthetic biology, global mobility, and weak public health systems.

Q26. Which of the following statements is/are incorrect?

1. Open Market Operations involves only buying of government securities (G-secs) by the RBI to regulate liquidity in the economy.
2. OMO has mandatory reserve requirement like CRR.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation: Open Market Operations are the buying and selling of **government**

securities (G-secs) by the **Reserve Bank of India (RBI)** to regulate **liquidity** in the economy. OMO has no **mandatory reserve requirement** like CRR.

Q27. Consider the following statements regarding Slender-billed Vulture

1. Conservation status under IUCN is Least Concern.
2. It is mostly found in the Assam floodplains, Terai region, and Gangetic plains.
3. It prefers lowland riverine forests and open areas near human settlements

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: D

Explanation: Conservation Status is Critically Endangered.

Q28. Which of the following statements about Fully Accessible Route (FAR) Bonds is/are correct:

1. There are no investment caps for FPIs.
2. RBI periodically notifies the list of FAR-eligible securities

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation: The FAR is a Reserve Bank of India (RBI) framework introduced in 2020 that allows un restricted foreign investment in select Government of India securities known as FAR Bonds.

It draws attention to India's debt market and the factors influencing **FPI participation**.

• **Key Features:**

- **No investment caps** for FPIs (unlike regular FPI limits in G-Secs).
- Weights of FAR securities **not counted** in overall FPI debt limits.
- Instruments designated as FAR are usually **long-dated G-Secs** (e.g., 5-year, 10-year, 30-year G-Secs).

RBI periodically notifies the list of FAR-eligible securities.

Q29. Which of the following statements is/are correct:

1. Flight Duty Time Limitations Rules are issued by DGCA.
2. It aims to reduce fatigue-related safety risks, align Indian aviation with global norms.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above

D. None of the above

Ans: C

Explanation: FDTL refers to regulatory limits on how long pilots can be on duty, how many hours they may fly, the number of night operations they can perform, and the minimum rest required to prevent fatigue.

- Published by: Issued and enforced by the Directorate General of Civil Aviation (DGCA)
- To reduce fatigue-related safety risks, align Indian aviation with global norms, and ensure safer flight operations by regulating duty hours, night operations, and rest requirements.

Q30. Consider the following statements:

1. Conventional Nuclear reactors use Thorium as primary fertile fuel.
2. **Thorium** itself is **not fissile** so it must be combined with a **fissile "driver" material** like Uranium.
3. Thorium is **3–4 times more abundant** than uranium and widely available in **India**

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 2 and 3 Only
- C. All of the above
- D. 3 only

Ans: B

Explanation:

Thorium-based Nuclear Reactor

- **About:** It is a type of nuclear reactor that uses **thorium (Th-232)** as its primary **fertile fuel** material, as opposed to the conventional use of **uranium (U-235)** or **plutonium (Pu-239)**.
 - **Thorium** itself is **not fissile** (cannot sustain a chain reaction on its own), so it must be combined with a **fissile "driver" material** (like **U-235, U-233, or plutonium**) to initiate and sustain the **nuclear reaction**.

Abundance: Thorium is **3–4 times more abundant** than uranium and widely available in **India, Australia, and the USA**.

Q31. Which of the following statements is/are incorrect?

1. UMEED Portal is launched under Ministry of Rural Development to digitize Waqf property.
2. Only 27% Waqf properties are listed on UMEED; under 1% in West Bengal.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Launched by: Ministry of Minority Affairs, Government of India.
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Objective: To modernize and digitalize Waqf properties and ensure transparent administration. **Facts:** Only 27% Waqf properties are listed on UMEED; under 1% in West Bengal.

Q32. Consider the following statements regarding Antarctic Ozone Hole

1. The **Antarctic ozone hole** refers to the **seasonal thickening** of the **tropospheric ozone layer** over Antarctica during the **austral spring**.
2. The ozone hole size fluctuates yearly depending on **stratospheric temperature** and **volcanic eruptions**.
3. **Montreal Protocol (1987)** and its Kigali Amendment credited for halting further depletion and aiding gradual recovery.

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: D

Explanation: The **Antarctic ozone hole** refers to the **seasonal thinning** of the **stratospheric ozone layer** over Antarctica during the **austral spring (September–November)**.

Scientists use the term “**ozone hole**” for regions where ozone levels fall **below 220 Dobson Units (DU)**, not because ozone disappears entirely, but because concentrations drop far below normal.

Q33. Which of the following statements about Exercise Harimau Shakti Bonds is/are incorrect:

1. It is a bilateral military exercise between India and Myanmar.
2. India is represented mainly by troops from the DOGRA Regiment

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Exercise Harimau Shakti is a bilateral military exercise between India and Malaysia.

- It is conducted between the Indian Army and the Malaysian Army.
- India: Represented mainly by troops from the DOGRA Regiment.
- Malaysia: Represented by the 25th Battalion, Royal Malaysian Army.
- **Host location:** Mahajan Field Firing Range, Rajasthan (India).

Q34. Which of the following statements is/are correct:

1. The strengthening of the Federal Reserve is one of the reasons of depreciation of Rupee.
2. Depreciation increases export Competitiveness

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation:

Strong US Dollar and Global Monetary Conditions is influencing depreciation of INR.

Potential (Relative) Benefits

- Export Competitiveness
- Incentive for Domestic Substitution / Import Substitution
- Benefit to Foreign-Earning Sectors
- Potential Boost for Tourism & Foreign Inflow (if leveraged properly)

Q35. Consider the following statements:

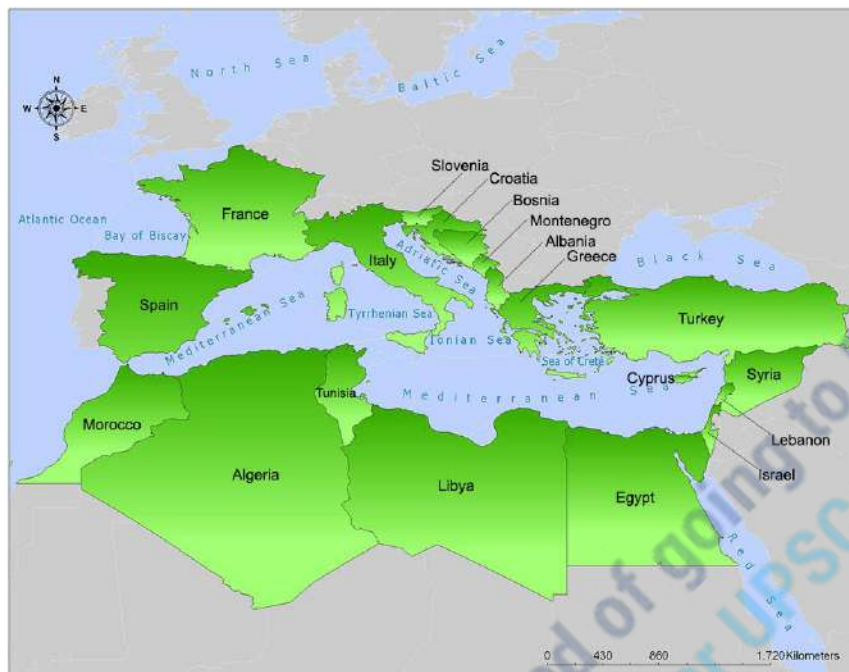
1. At COP24 of the Barcelona Convention in Cairo, EU countries and Mediterranean partners adopted strengthened commitments to protect the Mediterranean Sea.
2. Italy has no coastal area in the Mediterranean Sea.
3. Barcelona Convention aims to prevent, reduce, combat and eliminate pollution from land-based, marine and atmospheric sources

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 2 and 3 Only
- C. All of the above
- D. 1 and 3 only

Ans: D

- **Explanation:** At COP24 of the Barcelona Convention in Cairo, EU countries and Mediterranean partners adopted strengthened commitments to protect the Mediterranean Sea.
- The Barcelona Convention is a legally binding UNEP-led regional environmental agreement for protecting the Mediterranean Sea against pollution and promoting sustainable coastal and marine management.
- **Aims:**
 - Prevent, reduce, combat and eliminate pollution from land-based, marine and atmospheric sources.
 - Promote sustainable development through coordinated regional action.
 - Support Mediterranean states in implementing protocols dealing with dumping, emergencies, land-based sources, protected areas, offshore pollution, hazardous waste, and coastal zone management.



Q36. Which of the following statements is/are incorrect?

1. The EARTH Summit series aims to build a **national policy framework for rural development** by integrating learnings from its three editions
2. It is organized by NABARD & IAMAI.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: D

Explanation: The EARTH Summit series aims to build a **national policy framework for rural development** by integrating learnings from its three editions, first held in Hyderabad, then in Gandhinagar, and later in Delhi.

Jointly organized by the National Bank for Agriculture and Rural Development (NABARD) and the Internet and Mobile Association of India (IAMAI),

Q37. Consider the following statements regarding Sin Goods

1. Sin goods are also called “demerit goods”.
2. Tobacco is not a Sin Good.
3. “Sin goods” (also called “demerit goods”) are items considered harmful to health or socially undesirable.

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only

- C. All of the above
- D. 2 and 3 only

Ans: B

Explanation: “Sin goods” (also called “demerit goods”) are items considered harmful to health or socially undesirable — e.g. tobacco, pan-masala, sugary / carbonated drinks, and luxury or high-end goods.

“Sin goods” (also called “demerit goods”) are items considered harmful to health or socially undesirable — e.g. tobacco, pan-masala, sugary / carbonated drinks, and luxury or high-end goods.

Q38. Which of the following statements about Devolution of Finance is/are incorrect:

1. Cess and surcharges are divided between centre and states.
2. States surrendered significant taxation powers to the GST Council.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Cess and surcharges are not divisible. Centre keeps the fund.

Q39. Which of the following statements is/are correct:

1. Eturnagaram Wildlife Sanctuary Lies close to the Telangana–Maharashtra–Chhattisgarh tri-border region.
2. The forest is dominated by evergreen tree species.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Dominated by Teak (*Tectona grandis*) and mixed dry deciduous vegetation.

Q40. Consider the following statements:

1. UNEA-7 is the world’s highest environmental decision-making forum
2. It is convened under the UN Environment Programme (UNEP).
3. It brings together all UN member states to negotiate resolutions and chart global environmental policy.

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 2 and 3 Only
- C. All of the above

D. 1 and 3 only

Ans: C

Explanation: UNEA-7 is the world's highest environmental decision-making forum, convened under the UN Environment Programme (UNEP). It brings together all UN member states to negotiate resolutions and chart global environmental policy.

Q41. Which of the following statements is/are incorrect?

1. Blue Notice is binding on all Interpol members.
2. In India, this is issued through the CBI.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: In India, this is issued through the **CBI (Interpol NCB-India)**.

- It is a **Non-binding international alert**.
- Shared with all 196 Interpol member states.

Q42. Consider the following statements regarding Hate Speech

1. Hate speech has been clearly defined under Indian Constitution.
2. Karnataka has become the first Indian state to introduce a dedicated legislation to curb hate speech and hate crimes
3. In Shreya Singhal case the supreme court has struck down Section 66A IT Act “

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: D

Explanation: Hate Speech is not defined in constitution or any other law.

Q43. Which of the following statements about In-vitro Fertilization is/are incorrect:

1. In-vitro Fertilization means fertilization within the human body.
2. IVF is one of the most widely used Assisted Reproductive Technologies (ART) for treating infertility.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: **In vitro** = “outside the body.”

- IVF is an assisted reproductive technology (ART) where fertilization occurs outside the human body, in a laboratory.
- In-Vitro Fertilization (IVF) is one of the most widely used Assisted Reproductive Technologies (ART) for treating infertility.

Q44. Which of the following statements is/are correct:

1. There are only two grounds i.e. Proved misbehaviour and Incapacity to impeach a HC judge.
2. Motion to impeach a HC judge can be introduced in either house of the Parliament.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation: Only two grounds: Proved misbehaviour, Incapacity

- Process: Removal requires a motion in Parliament, same as for SC judges.
- Motion can be introduced: In Lok Sabha → with signatures of 100 MPs, or In Rajya Sabha → with signatures of 50 MPs.
- After admission, an inquiry committee is formed under the Judges (Inquiry) Act, 1968.
- Committee includes: One Supreme Court judge, One Chief Justice of a High Court, One distinguished jurist.
- Committee investigates charges → submits report.
- If charges are proved, each House must pass the motion: By a special majority (Majority of total membership, and 2/3rd of members present and voting).
- After passage in both Houses → sent to the President, who issues an order for removal.

Q45. Consider the following statements:

1. UPI has become world's Largest Real-Time Payment System.
2. UPI accounts for 59% of all global real-time digital payments.
3. It is operated by NPCI (National Payments Corporation of India) and regulated by the Reserve Bank of India (RBI).

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 2 and 3 Only
- C. All of the above
- D. 1 and 3 only

Ans: D

Explanation: The IMF has officially recognised India's Unified Payments Interface (UPI) as the world's largest real-time retail payment system by transaction volume.

- UPI accounts for 49% of all global real-time digital payments, far ahead of Brazil, Thailand and China.

- UPI (Unified Payments Interface) is India's instant, real-time, interoperable payments system that enables bank-to-bank transfers using a mobile phone.
- It is operated by NPCI (National Payments Corporation of India) and regulated by the Reserve Bank of India (RBI).

Q46. Which of the following statements is/are incorrect?

1. Deepavali is the first entry from India into UNESCO intangible cultural Heritage.
2. Chau Dance is prevalent in Eastern part of India.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Deepavali is 16th entry from India.

Chau is prevalent in Bengal, Odisha & Jharkhand which are eastern states of India.

Q47. Consider the following statements regarding Boreendo

1. It is a rare clay vessel-flute.
2. It is linked to the Indus Valley musical tradition.
3. It is a terracotta craft.

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: C

Explanation: UNESCO has inscribed Pakistan's Boreendo, a rare clay vessel-flute linked to the Indus Valley musical tradition, on the Intangible Cultural Heritage in Need of Urgent Safeguarding list.

The Boreendo is a spherical clay vessel-flute, producing mellow, breathy tones used in folk melodies, pastoral songs and winter gatherings in Sindh.

• **Characteristics:**

- Terracotta Craft
- Spherical Vessel Design
- Tilt-Based Sound Control
- Community Decoration
- Haunting Acoustic Tone
- Oral Transmission of Skills
- Cultural Symbolism



Q48. Which of the following statements about CITES is/are incorrect:

1. It is a legally binding multilateral treaty regulating international trade in wild animals and plants to ensure it does not threaten species survival.
2. Tiger is in appendix III in CITES list.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: B

Explanation: Tiger is appendix I which means international commercial trade is generally prohibited, allowed only in exceptional, non-commercial cases (e.g., scientific research) with special permits.

Q49. Which of the following statements is/are correct:

1. National Mission for Edible Oils aims to reduce India's dependence on imported edible oils.
2. It is a central sector scheme.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: It is a Centrally Sponsored Scheme.

Q50. Consider the following statements:

1. Dhruv is an Advanced Light Helicopter indigenously designed and manufactured by HAL.
2. It has military operational capabilities only.
3. India is among the few nations with capability to design & build such helicopters.

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 2 and 3 Only
- C. All of the above
- D. 1 and 3 only

Ans: D

Explanation: Dhruv (meaning **Pole Star**) is an **Advanced Light Helicopter (ALH)** indigenously designed and manufactured by **Hindustan Aeronautics Limited (HAL)**.

- Designed for both **military and civilian roles** (utility, transport, reconnaissance, medevac).
- India is among the **few nations with capability to design & build such helicopters.**



- **Category:** Light multi-role helicopter.
- **Crew:** 2 pilots.
- **Max Take-Off Weight:** ~5500 kg (5.5 tonne class).
- **Speed:** Max ~290 km/h; cruise ~253 km/h.
- **Service Ceiling:** ~5990 m (\approx 20,000 ft).
- **Range:** Up to ~810 km with max fuel & reserves.
- Powered by **twin engines** (Shakti engines developed with Safran).

Q51. Which of the following statements is/are incorrect?

1. Golden Eagles are called “Jujurana” (King of Birds) in Himachal Pradesh.
2. Western Tragopan are under Schedule IV of Wildlife Protection Act.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

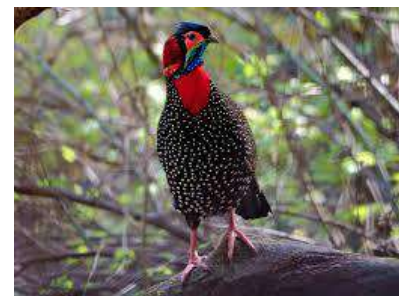
Explanation: Western Tragopan commonly called: “Jujurana” (King of Birds) in Himachal Pradesh.

• **Conservation Status: IUCN:** Vulnerable

- **Wildlife (Protection) Act, 1972:** Schedule I
- **CITES:** Appendix I

• **Habitat:**

- Endemic to the **Western Himalayas**
- Found mainly in **Himachal Pradesh** (especially Great Himalayan National Park), **J&K**, and parts of **Uttarakhand**



Q52. Consider the following statements regarding Hybrid Mutual Fund

1. These funds that invest in a mix of equity, debt, and sometimes gold or other assets.
2. These funds reduce risk in the longer term.
3. These are regulated by SEBI.

How many of these statements is/are correct?

- A. and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: C

Explanation: HMF are funds that invest in a mix of equity, debt, and sometimes gold or other assets to balance risk and return.

- **Regulator:** SEBI (Securities and Exchange Board of India)
- **Key Objective:** To provide **diversification**, reduce volatility, and offer **risk-adjusted returns** by combining asset classes.

- They are also known as asset allocation funds because they follow a pre-decided investment pattern.
- Hybrid funds are preferred because they spread risk across different assets, show lower ups and downs than pure equity funds, and give more stable returns.
- Hybrid funds are preferred because they spread risk across different assets, show lower ups and downs than pure equity funds, and give more stable returns.

Q53. Which of the following statements about PM Dhan-Dhaanya Krishi Yojana is/are incorrect:

1. PMDDKY is a comprehensive farm programme designed to enhance productivity, promote sustainable practices, and improve livelihoods
2. Under this scheme each selected district will establish a District DDKY Samiti, chaired by the District Collector, to implement the District Agriculture Development Plan.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: D

Explanation: PMDDKY (2025–26 to 2030–31) is a comprehensive farm programme designed to enhance productivity, promote sustainable practices, and improve livelihoods.

- It converges 36 existing schemes from 11 departments.
- The fund is allocated with 40% for subsidies, 30% for infrastructure, 20% for loans, and 10% for training and market support.
- It aims to boost agricultural productivity, promote crop diversification, enhance post-harvest storage and value addition, support women and youth in allied sectors, and achieve self-sufficiency in foodgrains, pulses, and oilseeds.
- District Selection Criteria: Districts are selected based on low crop productivity (below national averages), moderate cropping intensity (under 1.55 crop cycles per year), and low credit access (typically below 30% farmer coverage).
- Implementation Structure: Each selected district will establish a District DDKY Samiti, chaired by the District Collector, to implement the District Agriculture Development Plan (DADP), with oversight provided by 100 Central Nodal Officers (primarily Joint Secretaries).

Q54. Which of the following statements is/are correct:

1. Sujalam Bharat App is launched by Ministry of Jal Shakti
2. It enables **real-time monitoring** and management of infrastructure from source to household under **Jal Jeevan Mission**.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation: Sujalam Bharat App is a **digital platform** launched to support governance and monitoring of **rural drinking water supply systems** under the Jal Jeevan Mission.

- The app was **launched** by the **Ministry of Jal Shakti**
- It provides **real-time information** on water supply assets, water quality, infrastructure condition, and service reliability for rural drinking water schemes.
- Every rural water scheme and its service area receive a **unique Sujalam Bharat-Sujal Gaon ID**.
- The platform has been developed with technical support from the **Bhaskaracharya National Institute for Space Applications and Geo-informatics (BISAG-N)**.
- Enables **real-time monitoring** and management of infrastructure from source to household under **Jal Jeevan Mission**.

It is integrated with PM Gati Shakti GIS for precise geospatial mapping of water networks, asset inventory, water quality data, and community feedback.

Q55. Consider the following statements:

1. Q-Day refers to the hypothetical future moment when **quantum computers become powerful enough to break modern cryptographic systems**.
2. Q-Day can result in decryption of data that are stored previously.
3. Q-Day puts defense, banking and other sectors at risk

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 2 and 3 Only
- C. All of the above
- D. 1 and 3 only

Ans: C

Explanation: Q-Day refers to the hypothetical future moment when **quantum computers become powerful enough to break modern cryptographic systems**, especially **public-key encryption** (RSA, ECC). It marks a major cybersecurity risk event.

- **Why is it Significant?**
 - Quantum algorithms like Shor's algorithm can crack RSA/ECC in seconds.
 - Threatens national security, banking, defence communications, digital identity systems, and internet encryption.
 - Data can be harvested today and decrypted later ("store-now, decrypt-later" threat).

Q56. Which of the following statements is/are incorrect?

1. Core inflation excludes volatile items such as food and fuel.
2. It is less relevant for poorer households where food forms a large share of consumption.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above

D. None of the above

Ans: D

Explanation: Measure of inflation that excludes volatile items such as food and fuel from the headline inflation index.

- **Purpose:** To capture the underlying, long-term inflation trend in an economy.
- Calculated using CPI (Consumer Price Index) excluding food and fuel components.
- Closely monitored by the Reserve Bank of India (RBI).

Why Exclude Food & Fuel?

- Prices are influenced by seasonal factors, supply shocks and global commodity prices, making them volatile.
- **Difference from Headline Inflation:**
 - Headline inflation includes all items in CPI (food, fuel, housing, etc.).
 - Core inflation gives a cleaner signal of persistent inflation.
- **Limitations:**
 - Underestimates inflation felt by consumers when food and fuel prices rise sharply.
 - Less relevant for poorer households where food forms a large share of consumption.

Q57. Consider the following statements regarding Ozempic

1. Ozempic is a prescription injectable drug used primarily for Type-1 Diabetes
2. Semaglutide is the active ingredient in Ozempic.
3. The drug reduces appetite.

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: D

Explanation: It is primarily for Type-2 diabetes.

Q58. Which of the following statements about Mahatma Gandhi National Rural Employment Guarantee Act incorrect:

1. It gives legal entitlement to employment.
2. Wages are linked to state-wise MGNREGA rates.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: D

Explanation: Legal entitlement: Employment on demand; unemployment allowance if work is not provided within 15 days.

- **Decentralised implementation:** Planning and execution by **Gram Panchayats**.
- **Wage parity:** Wages linked to state-wise MGNREGA rates (aligned with minimum

wages).

- **Asset creation:** Focus on water conservation, land development, drought proofing, rural connectivity.
- **Transparency tools:** Social audits, mandatory muster rolls, Direct Benefit Transfer (DBT).

Q59. Which of the following statements is/are correct:

1. MahaCrimeOS AI is an Artificial Intelligence–based crime analytics and investigation support platform.
2. It is an initiative of Delhi Police.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: It is an initiative of Maharashtra police.

Q60. Consider the following statements:

1. Bluebird-6 will be the heaviest satellite ever to be launched by ISRO.
2. It is a communication satellite of America.
3. It will be launched using LVM3

How many of these statements is/are correct?

- A. Only one statement is correct
- B. Only 2 statements are correct
- C. All the statements are correct
- D. None of the statements are correct

Ans: C

Explanation: ISRO will launch BlueBird-6, the heaviest American commercial communication satellite (6.5 tonnes) ever to be launched by India, aboard the LVM3 rocket. Also, the heaviest satellite ever to be launched by India.

- **Primary Objective:** To enable **direct-to-mobile (Direct-to-Cell) broadband connectivity** from space **without ground-based towers**.
- Uses a **large phased-array antenna** capable of connecting **standard smartphones** directly to satellites.
- Supports **4G/5G non-terrestrial network (NTN)** technology.
- **Orbit:** **Low Earth Orbit (LEO)** – suitable for low latency communications.

Q61. Which of the following statements is/are incorrect?

1. Sustainable Harnessing of Advancement of Nuclear Energy for Transforming India (SHANTI) Bill is a proposed legislative initiative aimed at modernising India's nuclear energy framework.
2. The Bill encourages R&D and deployment pathways for thorium-based and advanced

fuel cycles.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: D

Explanation: The **Sustainable Harnessing of Advancement of Nuclear Energy for Transforming India (SHANTI) Bill** is a proposed legislative initiative aimed at modernising India's nuclear energy framework to meet **clean energy, energy security and climate commitments**. It seeks to unlock India's nuclear potential by enabling **advanced nuclear technologies**, greater private participation and alignment with India's long-term development goals such as *Net Zero by 2070*.

India possesses nearly **25% of the world's thorium reserves**. The Bill encourages R&D and deployment pathways for **thorium-based and advanced fuel cycles**.

Q62. Consider the following statements regarding CoalSETU

1. It is an initiative of Ministry of Power.
2. The initiative aims to ensure seamless, efficient and transparent allocation and utilisation of coal.
3. It allows any industrial consumer to participate in coal linkage auctions.

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: D

Explanation: CoalSetu is an initiative of Ministry of Coal, Government of India.

- **Objective:** Ensure **seamless, efficient and transparent** allocation and utilisation of coal.
- **Key Functions:**
 - End-to-end **online management of coal linkages**.
 - Real-time monitoring of **coal allocation, supply and utilisation**.
 - Single-point interface for stakeholders.
 - Allows any industrial consumer to participate in coal linkage auctions.
 - Existing NRS auctions for cement, sponge iron, steel, aluminium, CPPs will continue.

Q63. Which of the following statements about Ramappa Temple is/ are incorrect:

1. The temple is dedicated to lord Vishnu.
2. Use of sandbox foundation technique for earthquake resistance is a unique feature.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A**Explanation:** The temple is dedicated to Lord Shiva.**Q64. Which of the following statements is/are correct:**

1. Tapanuli orangutans is endemic to Italy.
2. Tapanuli orangutans is a Critically Endangered species according to IUCN.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: B**Explanation: Geographical Range: Batang Toru forest, Sumatra, Indonesia**

- **Smallest distribution range** among all orangutan species.
- **Conservation Status:**
 - **Critically Endangered – IUCN Red List**
 - Population estimated at **< 800 individuals**.
- **Distinct Features:**
 - Smaller skull, frizzier hair
 - Genetic and behavioural differences from Bornean and Sumatran orangutans
- **Protection:** Endemic to Indonesia; protected under national conservation laws.

**Q65. Consider the following statements:**

1. Gestational diabetes is a condition of high blood glucose detected for the first time during pregnancy.
2. A recent study has found early gestational diabetes affects more than half of the pregnant women in India.
3. Blood glucose usually returns to normal after delivery.

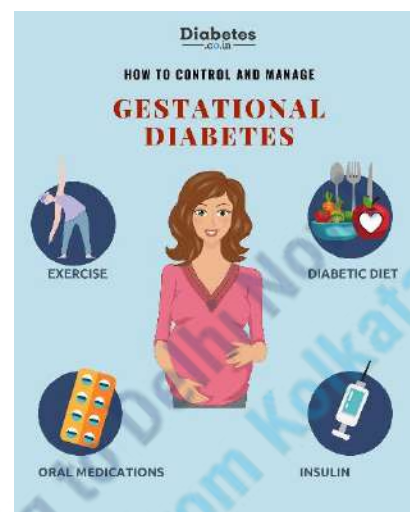
How many of these statements is/are correct?

- A. Only one statement is correct
- B. Only 2 statements are correct
- C. All the statements are correct
- D. None of the statements are correct

Ans: B**Explanation:** A condition of **high blood glucose** detected **for the first time during pregnancy** (usually 2nd or 3rd trimester).

- **Cause:** Hormonal changes in pregnancy leading to **insulin resistance**.

- **Risk Factors:** Obesity or overweight, Family history of diabetes, Advanced maternal age, Previous history of GDM or large baby (macrosomia)
- **Diagnosis:**
 - **Oral Glucose Tolerance Test (OGTT)**
 - In India, **DIPSI method** (single-step, non-fasting test) widely used.
- **Health Impacts:**
 - **On Mother:** Increased risk of preeclampsia, caesarean delivery, Higher chances of developing **Type-2 diabetes** later.
 - **On Child:** High birth weight, birth complications, Risk of obesity and diabetes in later life
- **Post-Pregnancy:** Blood glucose usually returns to normal after delivery.



The results of the STRiDE study, conducted among 2,700-odd pregnant women has found that out that early gestational diabetes affects about one in five pregnant women in India.

Q66. Which of the following statements is/are incorrect?

1. Project Suncatcher is a joint initiative of Google and Apple.
2. It is designed to address soaring energy requirements of AI compute on Earth by tapping into near-continuous solar energy in space.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: **Project Suncatcher** is a *research “moonshot” initiative* by **Google** to explore building **AI data centres in space** using **solar-powered satellites** — effectively moving large-scale computation *off Earth to orbit*.

- Designed to address **soaring energy requirements of AI compute** on Earth by tapping into **near-continuous solar energy in space**, which can be far more abundant than on the ground.
- Satellites powered by high-efficiency solar arrays to run compute hardware in orbit.
- It is part of Google’s *moonshot philosophy* — tackling long-term, high-risk technological challenges (similar to early big bets like Waymo/quantum computing).
- Could reduce environmental impact on Earth’s energy grid and water use
- **First prototypes:** Google plans to launch **two prototype satellites by early 2027** in partnership with Planet (Planet Labs). These will test core technologies (power, chips, communications) in **low Earth orbit (LEO)**.

Q67. Consider the following statements regarding Dandami Maria Tribe:

1. They are predominantly found in Purulia region of Bengal.
2. They are sub part of Gond Tribe.
3. Traditionally they practise Podu i.e. shifting cultivation.

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: D

Explanation: Predominantly found in **Bastar region of Chhattisgarh.**

- The Dandami Maria, also known as Bison Horn Maria or Khalpati Maria.
- They are a **sub-group of the Gond tribe.**
- Classified as a **Scheduled Tribe** under the Constitution of India.
- Speak **Gondi language**, belonging to the **Dravidian language family.**
- Traditionally practise **shifting cultivation (slash and burn / podu).**
- Depend on **forest produce**, hunting, fishing and small-scale agriculture.
- Known for **strong clan system** and community-based social organisation.
- Rich tradition of **folk dances, songs and rituals.**
- Ancestor worship and **nature-centric belief system** are common.

Q68. Which of the following statements about National Energy Conservation Awards is/ are incorrect:

1. The award is instituted by Bureau of Energy Efficiency.
2. It is awarded to recognise excellence in energy efficiency and conservation across sectors.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: D

Explanation: Instituted by: Bureau of Energy Efficiency (BEE)

- Under: Ministry of Power, Government of India
- Objective: To recognise excellence in energy efficiency and conservation across sectors.
- Eligible Participants: Industries (thermal power plants, cement, steel, textiles, chemicals, etc.), Buildings (commercial, institutional, residential complexes), Transport sector, State Designated Agencies (SDAs), Municipalities & DISCOMs, Innovators & technology providers (in specific categories)
- New category introduced: Social Media Influencers & Digital Content Creators to promote behavioural change through digital outreach
- Transparent selection process: Technical Committee (headed by Member–Thermal,

CEA), Award Committee chaired by Secretary (Power)

Q69. Which of the following statements is/are correct:

1. Pax Silica aims to reduce China's dominance and counter coercive dependencies across critical minerals, energy inputs, semiconductors etc.
2. India is a founding member of the pact.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Pax Silica is a U.S.-led strategic initiative/coalition aimed at building a secure, resilient, and innovation-driven global silicon (tech) supply chain — from critical minerals and energy to semiconductors, AI infrastructure, advanced manufacturing and logistics.

It aims to reduce China's dominance and counter coercive dependencies across critical minerals, energy inputs, semiconductors, advanced manufacturing, AI infrastructure, and logistics.

Key measures under Pax Silica focus on promoting joint ventures and strategic co-investments in high-tech sectors, protecting sensitive technologies and critical infrastructure from countries of concern, and building trusted technology ecosystems.

Founding Members / Allies- Includes United States as the lead and key partners such as Japan, South Korea, Singapore, the Netherlands, the United Kingdom, Israel, the United Arab Emirates and Australia.

Q70. Consider the following statements:

1. India is the largest Global Capability Centre hub globally.
2. Global Capability Centres (GCCs), earlier known as Global In-house Centres (GICs), offshore units set up by multinational companies.
3. Bengaluru, Hyderabad, Pune are hubs of GCC in India

How many of these statements is/are correct?

- A. Only one statement is correct
- B. Only 2 statements are correct
- C. All the statements are correct
- D. None of the statements are correct

Ans: C

Explanation: India is emerging as the world's leading destination for Global Capability Centres (GCCs), With over 1,700 GCCs now operating & projected revenues reaching USD 105 billion by 2030, the sector is becoming a pillar of India's service-led growth.

- Global Capability Centres (GCCs), earlier known as Global In-house Centres (GICs), offshore units set up by multinational companies.
- Unlike outsourcing, GCCs are **captive centres fully owned and controlled** by the

parent company.

- India is the largest GCC hub globally.
- Hosts 1,500+ GCCs across sectors (IT, BFSI, Pharma, Manufacturing, Semiconductors).
- Major clusters: Bengaluru, Hyderabad, Pune, Chennai, NCR.
- Economic Significance for India- Boosts high-skill employment, Strengthens innovation ecosystem, Supports services exports & forex earnings, Aids transition from IT services to knowledge economy etc.

Q71. Which of the following statements is/are incorrect?

1. Ethiopia is a landlocked nation.
2. The nation is part of BRICS.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: D

Explanation: Ethiopia- **Region:** Horn of Africa (East Africa)

- **Capital:** Addis Ababa. Also headquarters of the African Union (AU)
- **Landlocked country** (since Eritrea's independence in 1993)
- **Major River: Blue Nile** (Abay) – originates from Lake Tana
- **Great Rift Valley** passes through Ethiopia.
- **Climate:** Tropical monsoon with highland climate in central regions
- One of the oldest civilizations in the world
- Never colonised (except brief Italian occupation, 1936–41)
- Member of **UN, AU, BRICS (joined in 2024)**

Q72. Consider the following statements regarding HAMMER missile:

1. It is manufactured by Safran Electronics.
2. It has precision-guided air-to-ground capabilities.
3. It is not compatible with Rafale fighter aircraft.

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: A

Explanation: Popular Name: **HAMMER** (Highly Agile Modular Munition Extended Range)

- **Country of Origin: France**



- **Manufacturer: Safran Electronics & Defense**
- **Type & Role: Precision-guided air-to-ground weapon**
- **Converts conventional unguided bombs into smart stand-off weapons**
- **Key Features: Modular weapon system** (guidance + range-extension kit)
 - **All-weather, day-night capability**
 - **Fire-and-forget** system
 - Can be launched from **low or high altitude**
- **Guidance Systems: INS/GPS guidance**
- **Range:** Approx. **15 km** (low altitude launch), Up to **60–70 km** (high altitude launch)
- **Compatibility-** Compatible with **Rafale fighter aircraft**, Integrated with **Mirage-2000**

Q73. Which of the following statements about Vijay Diwas is/ are correct:

1. The day marks India's victory over Pakistan in the 1971 Indo-Pak War.
2. This day also marked liberation of Bangladesh.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation: Observed on: 16 December every year

- **Significance:** Marks **India's victory over Pakistan** in the **1971 Indo-Pak War**
- **Outcome:** Led to the **liberation of Bangladesh**
- **Historical Event:** On **16 December 1971**, about **93,000 Pakistani soldiers** surrendered
- Surrender took place in **Dhaka**
- **Instrument of Surrender:** Signed by **Lt. Gen. A.A.K. Niazi (Pakistan)** To **Lt. Gen. Jagjit Singh Aurora (India)**
- **Military Importance:** One of the **largest surrenders since World War II**

Q74. Which of the following statements is/are correct regarding The Annual Survey of Unincorporated Sector Enterprise:

1. It excludes agricultural but includes construction sectors.
2. National Statistics Office (NSO) conducts the survey.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: B

Explanation: The Annual Survey of Unincorporated Sector Enterprises (ASUSE) is a

government statistical exercise to collect detailed data on economic and operational characteristics of unincorporated (informal) **non-agricultural enterprises** in manufacturing, trade and services sectors.

- It **excludes agricultural and construction sectors**, focusing on manufacturing, trade, and other services.
- Conducting Authority: National Statistics Office (NSO) under the Ministry of Statistics & Programme Implementation (MoSPI)
- The NSO has been conducting ASUSE annually since 2021–22.
- **Comprehensive Data Coverage:** ASUSE collects data on employment size, gross value added, emoluments, asset ownership, digital adoption (ICT usage), and loan status.

Q75. Consider the following statements:

1. Helicopter has advanced attacking capabilities.
2. Safran Technologies are the manufacturer of these helicopters.
3. All weather capability is one of the prime features of these helicopters.

Choose the correct option:

- A. Only one statement is incorrect
- B. Only 2 statements are incorrect
- C. All the statements are incorrect
- D. None of the above

Ans: A

Explanation: Type: Advanced attack helicopter.

- **Manufacturer: Boeing (USA).**
- **Variant with India: AH-64E Apache Guardian** (latest version).
- **Induction in India: Indian Air Force (IAF)** – inducted from **2019, Indian Army Aviation Corps** – separate fleet sanctioned for Army use
- **Role:** Anti-tank warfare, Close air support, Armed reconnaissance and escort missions
- **Key Features: Twin-engine**, all-weather, day-night combat capability, **Advanced avionics & network-centric warfare capability**
- **Special Capabilities:** Fire-and-forget missile system, Operates in **high-altitude and desert conditions**
- **Strategic Significance for India:** Enhances **offensive strike capability** along borders

Q76. Which of the following statements is/are incorrect?

1. Governor can pardon in cases related to state laws.
2. Remission means temporary suspension of the punishment

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: B

Explanation: Governor's Power (Art. 161): Similar clemency powers but **cannot pardon a death sentence**. Applicable only to cases under **State law**.

Remission: Reduces the period of sentence

Q77. Consider the following statements regarding Param Vir Chakra:

1. It is the highest wartime gallantry award of India.
2. It can't be awarded posthumously.
3. 'Param Vir Dirgha' at Rashtrapati Bhavan is a gallery where portraits of all 21 Param Vir Chakra awardees were displayed.

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: B

Explanation:

3. **Highest wartime gallantry award of India**
4. **Instituted: 26 January 1950** (with retrospective effect from **15 August 1947**)
5. **Eligibility:** Awarded for **most conspicuous bravery or self-sacrifice** in the **presence of the enemy**.
 - A. Can be awarded to **personnel of Army, Navy, Air Force**, including **Territorial Army, Reserve Forces**.
 - B. **Posthumous awards permitted**.
6. **Design & Symbolism:** Circular bronze medal.
 - A. **Ashoka Lion Capital** in the centre.
 - B. Surrounded by **four replicas of Indra's Vajra** (symbol of strength).
 - C. Suspended from a **plain purple ribbon**.
7. **Hierarchy of Gallantry Awards:** **Param Vir Chakra, Mahavir Chakra, Vir Chakra**
8. **Number of Awardees:** **21 recipients** so far. **14 awarded posthumously**.
9. On Vijay Diwas 2025, President Droupadi Murmu inaugurated the 'Param Vir Dirgha' at Rashtrapati Bhavan, where portraits of all 21 Param Vir Chakra awardees were displayed.
10. This replaced portraits of British Aide-de-Camps, symbolising India's continued effort to shed colonial legacies.



Q78. Which of the following statements about Exercise Ekatha is/ are correct:

1. It is a joint military exercise between India and Myanmar.
2. Ekatha is a sanskrit word meaning "together / unified".

Options:

- A. Only 1
- B. Only 2
- C. Both of the above

D. None of the above

Ans: B

Explanation- Exercise Ekatha (PIB)

- **Type:** Joint Military Exercise
- **Participants:** India and Maldives
- **Nature:** Bilateral exercise
- **Meaning of 'Ekatha':** Sanskrit word meaning “together / unified”.
- **Objective:** Enhance **interoperability** between armed forces, Strengthen **joint operational planning and coordination**.
- Promotes **regional security cooperation** in the Indian Ocean Region (IOR).

Q79. Which of the following statements is/are incorrect regarding Naxalism:

1. The number of most affected Left-Wing Extremism (LWE)-affected districts has doubled in recent years.
2. Naxal-related violence has reduced by about 81% since 2010.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Reduction of Naxalism in India — Key Statistics

- The number of *most affected Left-Wing Extremism (LWE)-affected districts* has fallen from **12 to just 6** in recent years.
- Naxal-related violence has reduced by *about 81%* since 2010, from roughly **1,936 incidents in 2010 to about 374 in 2024**.

Combined *security personnel and civilian fatalities* are down 85% (from ~1,005 in 2010 to ~150 in 2024), indicating reduced intensity of conflict.

Q80. Consider the following statements:

1. India is a signatory to the World Anti-Doping Code.
2. Indian athletes makes up the highest number of doping offenders in the world.
3. World Anti-Doping Agency promotes, coordinates and monitors the global fight against doping in sports.

Choose the correct option:

- A. Only one statement is incorrect
- B. Only 2 statements are incorrect
- C. All the statements are incorrect
- D. None of the above

Ans: D

Explanation: World Anti-Doping Agency (WADA)- International independent agency

- **Headquarters:** Montreal, Canada
- **Objective:** To **promote, coordinate and monitor** the global fight against doping in sports.
- **Formation Background:** Created after the **1998 Tour de France doping scandal**.
- **Key Functions:**
 - Frames and updates the **World Anti-Doping Code**.
 - Publishes the **Prohibited List** (updated annually).
 - Accredits **anti-doping laboratories** worldwide.
 - Oversees compliance of countries and sports bodies with anti-doping rules.
 - Promotes **scientific research, education and awareness** against doping.
- **World Anti-Doping Code:** Harmonizes anti-doping rules across sports and countries.
 - Binding on **International Federations, National Olympic Committees (NOCs)** and **National Anti-Doping Organizations (NADOs)**.
- **Prohibited List Includes:** Substances enhancing performance (e.g., anabolic agents), Methods like **blood doping and gene doping**.
- **Governance Structure:** Foundation Board and Executive Committee.
 - Equal representation from **governments and sports movement (50:50)**.
- **Funding:** Shared equally by **governments and the Olympic Movement**.
- **India & WADA:** **National Anti-Doping Agency (NADA)** is India's nodal body.
 - India is a **signatory to the World Anti-Doping Code**.
- **Recent Relevance:** **India tops the world again in most dope offenders, thrice in a row.**

Q81. Which of the following statements is/are incorrect?

1. Central Information Commission (CIC) is a constitutional body established under the Right to Information Act, 2005.
2. Currently the CIC is fully constituted without any vacancies.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation- **Central Information Commission (CIC)** is a **statutory body** established under the **Right to Information Act, 2005**. The President appointed Raj Kumar Goyal as Chief Information Commissioner and 8 new Information Commissioners, thereby fully constituting the Central Information Commission (CIC) for the first time in 9 years.

Q82. Consider the following statements regarding BRICS:

1. South Africa is a founding member of BRIC.
2. Beijing hosts the permanent secretariat of BRICS.
3. BRICS represent approx

How many of these statements is/are incorrect?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: A

Explanation- Full Form: Brazil, Russia, India, China, South Africa

11. **Founded: 2009** (as BRIC); **South Africa joined in 2010**
12. **Nature:** Informal grouping of **major emerging economies**
13. **Objective:** Promote **multipolar world order**, reform of **global governance institutions**, and **South–South cooperation**.
14. Represents about **40% of world population** and **~25–30% of global GDP**.
15. Decisions taken by **consensus**.
16. No permanent secretariat.



Q83. Which of the following statements about Rhinoceros is/ are correct:

1. It is one of the oldest surviving megafauna.
2. Rhinos occupy diverse ecosystems from grasslands to swamps.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation: Rhinos are **mega-herbivores** found in **Africa and Asia**.

- Major threats: **poaching (for horn)**, **habitat loss**, **fragmentation**, **human–wildlife conflict**.
- It is one of the oldest surviving megafauna, dating back millions of years.
- **Habitat:** Rhinos occupy diverse ecosystems depending on species: Grasslands and savannahs, Tropical and subtropical forests, Swamps, riverine areas, and shrublands.



Q84. Which of the following statements is/are incorrect regarding DHRUV-64

1. It is indigenously developed 8 bit microprocessor.
2. It is developed by **Centre for Development of Advanced Computing**.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above

D. None of the above

Ans: A

Explanation: Type: Indigenous 64-bit microprocessor

- **Developed by: C-DAC (Centre for Development of Advanced Computing)**
- **Key Features:**
 - **64-bit processing capability** suitable for high-performance and secure computing.
 - Designed for **strategic, defence, and critical applications**.
 - Focus on **security, reliability, and trustworthiness**.
 - Compatible with **Indian-made hardware & software ecosystem**



Q85. Consider the following statements:

1. Exercise Desert Cyclone is conducted between India and France.
2. For the 2025 edition the location is Abu Dhabi.
3. Its aim is to prepare forces for peacekeeping, counter-terrorism and stability operations in urban environments.

Choose the correct option:

- A. Only one statement is incorrect
- B. Only 2 statements are incorrect
- C. All the statements are incorrect
- D. None of the above

Ans: A

Explanation: Exercise Desert Cyclone (PIB)

- **Participants:** Indian Army & UAE Armed Forces
- **Nature:** Bilateral
- **Domain:** Land warfare / Joint combat operations
- **Place for 2025:** Abu Dhabi. It will be only the second edition.
- **Aim:**
 - To train jointly for sub-conventional operations under a UN mandate.
 - To prepare forces for peacekeeping, counter-terrorism and stability operations in urban environments.

Q86. Which of the following statements is/are incorrect?

1. IN-SPACe is an autonomous nodal agency under the Department of Space (DoS), Government of India.
2. It acts as a single-window regulator and facilitator for government space activities in India.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above

D. None of the above

Ans: B

Explanation- IN-SPACE stands for *Indian National Space Promotion and Authorization Centre*.

- It is an **autonomous nodal agency** under the **Department of Space (DoS), Government of India**.
- It acts as a *single-window regulator and facilitator* for private space activities in India.
- To **promote, authorize, and supervise** space activities of private entities (non-governmental entities or NGEs).
- Part of broader space reforms to **open the Indian space sector to private players** and bring a **demand-driven model**.

Q87. Consider the following statements regarding Erivan Anomalous Blue:

1. It is endemic to Azerbaijan.
2. IUCN Conservation status for this species is Critically Endangered.
3. They are found at elevations of 1,200–2,200 metres above sea level

How many of these statements is/are incorrect?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: A

Explanation- *Erivan Anomalous Blue* is a **butterfly species** scientifically known as *Polyommatus eriwanensis*.

- It is **endemic to Armenia**, particularly around the **Yerevan region** (Armenia capital area).
- Inhabits calcareous grasslands in Armenia.
- Found at elevations of 1,200–2,200 metres above sea level.
- One generation per year; adults are active from mid-June to mid-July.
- The larval host plant is still unknown, limiting ecological assessment.
- **IUCN status:**
 - Not listed in the Global or European IUCN Red Lists.
 - Listed as Endangered in the Red Book of Animals of Armenia (2010).
 - Distribution partly overlaps with Khosrov Forest State Reserve and Gnishik Protected Landscape.
- **Key characteristics:**
 - **Endemic and range-restricted**, making it highly sensitive to environmental change.
 - Butterflies act as **indicator species**, reflecting ecosystem health.



Q88. Which of the following statements about Sabka Bima, Sabki Raksha (Amendment of Insurance Laws) Bill, 2025 is/ are correct:

1. The Bill increases the FDI cap in Indian insurance companies from 74% to 100%.
2. IRDAI is endowed with enhanced powers, including stricter enforcement authority, investigation powers, and the ability to recover wrongful gains.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation-

Key Provisions of the Bill

1. **100% Foreign Direct Investment (FDI)-** The Bill increases the FDI cap in Indian insurance companies from 74% to 100%, allowing full foreign ownership subject to prescribed conditions.
2. **Liberalisation of Reinsurance-** For foreign reinsurers, the Net Owned Fund (NOF) requirement is reduced significantly from ₹5,000 crore to ₹1,000 crore, making India more attractive as a reinsurance destination.
3. **Regulatory Strengthening-** The Insurance Regulatory and Development Authority of India (IRDAI) is endowed with **enhanced powers**, including stricter enforcement authority, investigation powers, and the ability to **recover wrongful gains**.
4. **Policyholder Protection & Education Fund-** A Policyholders' Education and Protection Fund will be established, administered by IRDAI, to promote insurance awareness and safeguard consumer interests.

Q89. Which of the following statements is/are incorrect regarding Agentic AI:

1. It refers to AI systems that can autonomously plan, decide, and act.
2. Agentic AI is goal driven instead of prompt driven.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: D

Explanation- Agentic AI refers to AI systems that can autonomously plan, decide, and act to achieve a given goal, with **minimal human intervention**.

- Unlike traditional AI (rule-based or prompt-response), Agentic AI **initiates actions**, uses tools, and adapts based on outcomes.
- **Key Characteristics**
 - **Autonomy** – operates without constant human input
 - **Goal-oriented behaviour** – works towards defined objective.
 - **Planning & reasoning** – breaks tasks into sub-tasks

- **Tool use** – can call APIs, software, databases
- **Learning from feedback** – adjusts strategies dynamically

How it is Different from Generative AI

Aspect	Generative AI	Agentic AI
Primary role	Content generation	Action execution
Autonomy	Low	High
User control	Prompt-driven	Goal-driven
Example	Chatbots, image generators	Auto-trading bots, AI assistants managing workflows

Q90. Consider the following statements:

1. Microplastics are plastic particles less than 5 mm in size.
2. Inhalable Microplastics are tiny airborne plastic particles smaller than 10 micrometres (μm) that remain suspended in the air and can be inhaled.
3. It enters food chain via bioaccumulation & biomagnification

Choose the correct option:

- A. Only one statement is incorrect
- B. Only 2 statements are incorrect
- C. All the statements are incorrect
- D. None of the above

Ans: D

Explanation- Microplastics are plastic particles < 5 mm in size.

- They persist in the environment due to **non-biodegradable nature**.
- **Types**
 - **Primary Microplastics-** Manufactured small plastics. Examples: Microbeads in cosmetics & toothpaste, Industrial abrasives, Pre-production plastic pellets etc.
 - **Secondary Microplastics-** Formed by **fragmentation of larger plastic items** due to UV radiation, heat, and mechanical action Examples: breakdown of plastic bags, bottles, fishing nets
- **Sources (High-Yield)-** Single-use plastics, Synthetic textiles (polyester, nylon microfibers), Tyre wear & road runoff, Paints and coatings, Packaging waste
- **Inhalable Microplastics:** They are tiny airborne plastic particles smaller than **10 micrometres (μm)** that remain suspended in the air and can be inhaled deep into the **lungs**, unlike larger microplastics that settle quickly.
- Found in: Oceans, rivers, soil, air, Polar ice, deep sea trenches, Drinking water (tap & bottled).
- Enter food chain via **bioaccumulation & biomagnification**
- **Impact on Ecosystem-** Ingested by **plankton, fish, birds, marine mammals**



Q91. Which of the following statements is/are correct?

1. Chillai Kalan is the harshest 30-day winter period in Kashmir Valley, marking the peak of winter.
2. Chillai Khurd precedes Chillai Kalan

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: D

Explanation: *Chillai Kalan* is the **harshest 40-day winter period** in Kashmir Valley, marking the peak of winter.

- **Duration:** Begins around **21 December**. Ends around **30 January**
- **Etymology:** *Chillai* = forty. *Kalan* = major/severe (Persian origin)
- **Climatic features:**
 - **Extremely low temperatures** (often below -10°C)
 - **Frequent snowfall**
 - **Frozen water bodies** like Dal Lake and rivers
 - Reduced daylight and dense fog
- **Subsequent phases:**
 - **Chillai Khurd** (Next 20 days after Chillai Kalan): Less severe cold
 - **Chillai Bachha** (Next 10 days after Chillai Khurd): Cold gradually recedes
- **Cultural significance:**
 - Shapes local lifestyle, architecture, clothing, and food habit.
 - Popularly referenced in Kashmiri folklore and traditions

Q92. Consider the following statements regarding CSR:

1. Corporate Social Responsibility (CSR) must inherently include environment and ecological protection but not a constitutional obligation.
2. CSR spending mandates at **least 2%** of the **average net profits of the last 3 years**.
3. CSR committee must include minimum **3 directors**, including **1 independent director**.

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: D

Explanation: Legal basis in India: Section 135 of the Companies Act, 2013 and CSR
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Rules, 2014

- **Applicability (any one condition):** Net worth \geq ₹500 crore, or Turnover \geq ₹1,000 crore, or Net profit \geq ₹5 crore (during the immediately preceding financial year)
- **Mandatory CSR spending:** At least 2% of the average net profits of the last 3 years
- **CSR Committee:**
 - Minimum 3 directors, including 1 independent director
 - Not mandatory for certain private/unlisted companies (as per amendments)
- **Permissible CSR activities:** Listed under **Schedule VII** of the Companies Act, including: Poverty alleviation, healthcare, nutrition, Education and skill development, Gender equality, women empowerment etc.
 - **Not treated as CSR:** Activities in **normal course of business** (with limited exceptions), Political contributions, Benefits exclusively for employees etc.
 - **Implementation:** By the company itself or through **registered implementing agencies** (Trusts, Societies, Section 8 companies)
- **Unspent CSR amount:** Transfer to specified government fund within **6 months**
- **The Supreme Court of India has ruled** that Corporate Social Responsibility (CSR) must inherently include environment and ecology, holding that CSR spending on environmental protection is not charity **but a constitutional obligation** under Article 51A(g).

Q93. Which of the following statements about Nucleic Acid Amplification Test is/ are incorrect:

1. It is a molecular diagnostic test used to detect viral genetic material in donated blood.
2. It uses Polymerase Chain Reaction.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: D

Explanation: NAAT – Nucleic Acid Amplification Test

- **It is a molecular diagnostic test** used to detect **viral genetic material (DNA/RNA)** in donated blood.
- **Purpose in blood testing:**
 - Screens blood for **transfusion-transmitted infections (TTIs)**
 - Identifies infections **during the window period** when antibodies are not yet formed
- **Pathogens commonly screened:** **HIV-1 & HIV-2, Hepatitis B Virus (HBV), Hepatitis C Virus (HCV)**
- **How it works:**

- Amplifies viral nucleic acids using techniques like **PCR (Polymerase Chain Reaction)**
- Can be done as **Individual Donation NAAT (ID-NAAT)** or **Mini-pool NAAT (MP-NAAT)**
- **Relevance in India:**
 - Adopted by **NBTC / NACO** guidelines for safer blood transfusion
 - Implemented in major blood banks and tertiary hospitals
 - Supports India's goal of **zero-risk blood transfusion**

Q94. Which of the following statements is/are correct regarding Kakori case:

1. Hindustan Republican Association carried out the daring raid.
2. Ram Prasad Bismil, Ashfaqulla Khan, Rajendra Nath Lahiri were executed related to this case.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C

Explanation: Union Home Minister paid tribute to Pandit Ram Prasad Bismil, Ashfaqulla Khan, and Roshan Singh on their Balidaan Diwas (19th December), honoring their sacrifice in the Kakori Train Action that shook the foundations of British rule.

- **Organisation involved: Hindustan Republican Association (HRA)** (later became **Hindustan Socialist Republican Association – HSRA**)
 - **Key leaders involved: Ram Prasad Bismil, Ashfaqulla Khan, Chandrashekhar Azad, Rajendra Nath Lahiri, Sachindra Nath Sanyal**
- **Objective:**
 - To seize money meant for the **British treasury**
 - To fund revolutionary activities against colonial rule
- Led to a massive **crackdown** on revolutionaries
- **Kakori Conspiracy Case (1925–27): Ram Prasad Bismil, Ashfaqulla Khan, Rajendra Nath Lahiri** – executed. **Sachindra Nath Sanyal** – life imprisonment. Several others received long jail terms.

Q95. Consider the following statements:

1. India and Russia have signed Reciprocal Exchange of Logistics Support.
2. The RELOS agreement governs the movement of troops, warships, and military aircraft.
3. It enables mutual use of airspace, and allows port calls by naval vessels of both countries.

Choose the correct option:

- A. Only one statement is incorrect

- B. Only 2 statements are incorrect
- C. All the statements are incorrect
- D. None of the above

Ans: D

Explanation: Reciprocal Exchange of Logistics Support (RELOS) — a *bilateral military logistics* agreement between **India and Russia**.

- **Type: Military logistics support pact** (not a basing treaty).
- **Purpose:**
 - Provides **procedures for mutual logistical support** — refuelling, repairs, maintenance, provisioning and berthing.
 - Governs movement and support of **military formations, warships, and aircraft** of both countries.
 - The RELOS agreement enables mutual use of airspace, and allows port calls by naval vessels of both countries.
- Strengthens India's Indo-Pacific strategy by enabling long-range deployments using Russia's network of over 40 military bases.

Q96. Which of the following statements is/are correct?

1. Fukushima hosts the largest Nuclear power plant of the world.
2. The power plant is in the west coast of Japan which is in the shores of Atlantic Ocean.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Fukushima Nuclear Power Plant

- **Location: Fukushima Prefecture**, eastern coast of **Japan** (Pacific coast)
- It is the largest nuclear powerplant of the world.
- Fukushima Nuclear Disaster (2011)- Magnitude 9.0 earthquake followed by a tsunami.
- Cause of accident: Tsunami disabled backup diesel generators
- Classified as Level 7 on the International Nuclear and Radiological Event Scale (INES)
- Same level as Chernobyl (1986)



- Japan took the final step to allow the world's largest nuclear power plant to resume operation.

Q97. Consider the following statements regarding Jallikattu:

1. Jallikattu is a traditional, ancient bull-taming sport from Tamil Nadu.
2. The Supreme court has banned Jallikattu due to apprehensions of cruelty against animal.
3. It is conducted during Pongal festival, especially on Mattu Pongal day

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: B

Explanation: Jallikattu is a traditional, ancient bull-taming sport from Tamil Nadu, India, celebrated during the Pongal festival, where participants try to grab a bull's hump to win prizes, preserving native cattle breeds and showcasing rural valor

- **Occasion:** Conducted during Pongal festival, especially on Mattu Pongal day.
- **Historical Reference:** Mentioned in Sangam literature (c. 400 BCE–300 CE), indicating ancient origins.
- **Geographical Spread:** Predominantly in Tamil Nadu (Madurai, Tiruchirappalli, Theni regions).
- **Variants in other states:** Manjuvirattu (Tamil Nadu), Eruthazhuvuthal.
- **Animals Involved:** Indigenous bull breeds like Kangayam, Pulikulam, Umbalachery.
- **Legal History:**
 - 2014 Supreme Court judgment banned Jallikattu citing animal cruelty (under PCA Act, 1960).
 - **2023 Constitution Bench upheld:** Tamil Nadu, Karnataka, and Maharashtra laws permitting Jallikattu/Kambala/Bullock cart races. Recognised Jallikattu as part of cultural heritage, subject to regulation.



Q98. Which of the following statements about Great Indian Bustard is/ are incorrect:

1. Habitat range for this species is arid and semi-arid grasslands, scrublands.
2. The species is Critically Endangered in IUCN conservation list.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: D**Explanation:** Great Indian Bustard

- **Habitat:** Arid and semi-arid grasslands, scrublands. A voids forests and dense vegetation
- **IUCN Status:** Critically Endangered
- **Wildlife Protection Act, 1972:** Schedule I (highest level of protection)
- **CITES:** Appendix I (international trade prohibited)
- **Endemism:** Endemic to the Indian subcontinent (India & marginal presence earlier in Pakistan)
- **Major States (present strongholds):** Rajasthan (Desert National Park – largest population), Gujarat (Kutch landscape), Maharashtra etc.
- **State Bird: Rajasthan**
- **Physical Features:** Among the heaviest flying birds in the world. Black crown on head, long legs, white body with brown wings
- **Diet:** Omnivorous – insects (locusts, beetles), seeds, grasses, small reptiles
- **Major Threats:** Collision with overhead power transmission lines (largest cause of mortality)



Q99. Which of the following statements is/are incorrect regarding Index of Eight Core Industries (ICI):

1. It is released by Office of the Economic Adviser.
2. Fertilisers have the highest weight in the index.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: B**Explanation:** Index of Eight Core Industries (ICI)

- A composite index that measures **production performance of eight core industries** of the Indian economy.
- These industries have **high weight (~40%) in the Index of Industrial Production.**
- **Base Year: 2011–12**
- **Frequency: Monthly**

- **Released by:** Office of the Economic Adviser (OEA), Ministry of Commerce & Industry
- **Nature:** Volume-based index (not value-based)
- **Eight Core Industries Covered-** Coal, Crude Oil, Natural Gas, Refinery Products, Fertilisers, Steel, Cement, Electricity
- **Refinery Products:** Highest weight. Followed by **Electricity, Steel, Coal**
- Lowest weight among the eight: **Fertilisers**

Q100. Consider the following statements:

1. Bureau of Port Security will be constituted as a statutory body under Section 13 of the Merchant Shipping Act, 2025.
2. Under BoPS, a dedicated cyber security division will be established to protect port IT and digital infrastructure.
3. The Bureau is modelled on the Bureau of Civil Aviation Security (BCAS).

Choose the correct option:

- A. Only one statement is incorrect
- B. Only 2 statements are incorrect
- C. All the statements are incorrect
- D. None of the above

Ans: D

Explanation: Bureau of Port Security

- The Government of India has decided to set up a dedicated statutory body, the Bureau of Port Security (BoPS), to ensure comprehensive and risk-based security of ports and vessels across India.
- It will be constituted as a statutory body under Section 13 of the Merchant Shipping Act, 2025.
- BoPS will function under the Ministry of Ports, Shipping and Waterways .
- The BoPS shall be headed by the Director General (an IPS officer of Pay Level-15). During the one-year transition period, the Director General of Shipping (DGS/DGMA) shall function as the Director General, BoPS.
- The Bureau is modelled on the Bureau of Civil Aviation Security (BCAS).
- Under BoPS, a dedicated cyber security division will be established to protect port IT and digital infrastructure.
- To strengthen port security infrastructure, the CISF has been designated as a Recognised Security Organisation (RSO) for ports.
- CISF is mandated to train and certify Private Security Agencies (PSAs) engaged in port security, with regulatory safeguards.



Q101. Which of the following statements is/are correct?

1. Jnanpith Award is the highest literary award in South Asia.
2. It is administrated by Bharatiya Jnanpith, a literary and cultural organisation.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: B**Explanation: Jnanpith Award**

- **Highest literary award in India.**
- **First Awarded: 1965**
 - **Objective:** To recognise **outstanding contributions to Indian literature.**
- **Eligibility:**
 - Awarded to an **Indian author** for **overall contribution**, not for a single work.
 - Work must be in **any of the languages listed in the Eighth Schedule of the Constitution** or **English.**
 - **Administered by: Bharatiya Jnanpith**, a literary and cultural organisation.
- **Selection Process:**
 - Language-wise advisory committees recommend names.
 - Final decision by the **Jnanpith Award Selection Board.**
- **Components of the Award: Citation, Vagdevī (Saraswati) bronze statue, Cash prize (₹11 lakh at present)**
 - **Nature of Award: Annual**, but not necessarily awarded every year.
- **Notable Facts:**
 - First recipient: **G. Sankara Kurup (Malayalam)**
 - Only **posthumous award: Ramdhari Singh 'Dinkar' (Hindi)**

**Q102. Consider the following statements regarding GHAR Portal:**

1. It is a digital platform developed and launched by the National Commission for Protection of Child Rights (NCPCR).
2. It is aligned with the Juvenile Justice (Care & Protection of Children) Act, 2015.
3. It Allows digital transfer of cases to Juvenile Justice Boards/Child Welfare Committees for speedy action

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: C**Explanation: GHAR – GO Home and Re-Unite Portal**

- A digital platform developed and launched by the National Commission for Protection of Child Rights (NCPCR) to monitor and track the restoration and repatriation of children under the Juvenile Justice system.
- **Legal & Policy Basis:** Aligned with the Juvenile Justice (Care & Protection of Children)

Act, 2015 and associated protocols.

- Key Features:
- Digital tracking & monitoring: Helps track children who are in the Juvenile Justice system and need to return home (within country or from abroad).
- Case transfer: Allows digital transfer of cases to Juvenile Justice Boards/Child Welfare Committees for speedy action.
- Support mechanisms: Requests for translators/interpreters or experts can be routed through concerned state authorities.
- Checklist & welfare linkage: Includes checklists to flag difficult repatriation cases and links children with government welfare schemes for family strengthening.
- Restoration & rehabilitation: Enables Child Welfare Committees and District Child Protection Officers to monitor progress and ensure restoration with family.

Q103. Which of the following statements about Rapid Financing Instrument is/ are incorrect:

1. Rapid Financing Instrument is a lending facility of the RBI.
2. It is to help countries meet immediate and severe economic disruptions due to shocks—such as natural disasters, commodity price spikes.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Rapid Financing Instrument is a lending facility of the **International Monetary Fund (IMF)**.

- It provides **quick financial assistance to IMF member countries** facing **urgent balance of payments (BoP) needs**.
- **Purpose**
 - To help countries **meet immediate and severe economic disruptions** due to shocks—such as **natural disasters, commodity price spikes, or global crises**—without a full-fledged IMF program.
 - Designed for situations where a long-term program isn't **necessary or feasible** but urgent support is essential.
- **Key Features:**
 - **Fast disbursement:** Funds are provided **rapidly** in a **single tranche** to address immediate needs.
 - **Minimal conditionality:** No comprehensive economic reform program or frequent reviews are required—only general policy intentions.
- **Eligibility: All IMF member countries** can use the RFI facility.
- **Difference from other IMF support:**
 - Unlike standard IMF programs (e.g., Stand-By Arrangements), **no in-depth conditionality** or long-term structural reforms are mandated under RFI.
 - It complements, rather than replaces, longer IMF arrangements.

Q104. Which of the following statements is/are incorrect regarding Superkilonova:

1. A superkilonova has an additional energy source, as it begins with a supernova explosion that forms one neutron star instead of two.
2. This event helps explain heavy element formation (gold, platinum, uranium) in the universe.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Kilonova: When two neutron stars collide, they eject heavy radioactive elements such as gold, platinum and neodymium, whose decay produces optical and infrared emissions known as a kilonova.

- **Superkilonova:** A superkilonova has an additional energy source, as it begins with a supernova explosion that forms two neutron stars (instead of one).
- **Associated With: Merger of compact objects**, especially **Neutron star–neutron star**, **Neutron star–black hole** systems.
- **How is it different from a Kilonova?**
 - **Much brighter and longer-lasting** than a normal kilonova
 - Energy output may approach or exceed some **supernova-like luminosities**, hence the prefix “*super*”
- **Source of Energy:** Believed to be powered by: **Rapid neutron-rich radioactive decay (r-process)**, Additional energy injection from a **long-lived magnetar** (highly magnetised neutron star)
- **Scientific Significance:** Helps explain **heavy element formation** (gold, platinum, uranium) in the universe.
- **Detected via: Gravitational waves, Electromagnetic radiation** (optical, infrared)
- Often follows a **binary merger event** detected by LIGO–Virgo



Q105. Consider the following statements:

1. SHAKTI Scholars – NCW Young Research Fellowship launched by National Commission for Minorities.
2. It encourages multidisciplinary, evidence-based research that can inform policymaking and strengthen interventions for women’s rights, safety, dignity, empowerment and related socio-economic issues.
3. Indian citizens aged 21–30 years are eligible for the fellowship.

Choose the correct option:

- A. Only one statement is incorrect
- B. Only 2 statements are incorrect
- C. All the statements are incorrect

D. None of the above

Ans: A

Explanation: SHAKTI Scholars – NCW Young Research Fellowship

- A **young research fellowship** launched by the **National Commission for Women (NCW)** to promote **policy-oriented research** on issues affecting women in India.
- SHAKTI Scholars is a six-month, grant-based research fellowship designed to support young scholars and independent researchers in undertaking policy-relevant, multidisciplinary research on issues affecting women in India.
- **Objective:** To **encourage multidisciplinary, evidence-based research** that can inform policymaking and strengthen interventions for women's rights, safety, dignity, empowerment and related socio-economic issues.
- **Thematic Focus Areas:**
 - Women's safety and dignity
 - Gender-based violence & access to justice
 - Cyber safety & POSH (Prevention of Sexual Harassment) implementation
 - Women's leadership, political participation & governance
 - Health, nutrition, education & skill development
 - Economic empowerment & labour force participation
 - Socio-cultural practices & work-life balance
- **Eligibility:** **Indian citizens** aged **21–30 years**
- **Minimum qualification:** **Bachelor's degree** from a recognised institution
 - **Preference** for those pursuing/completed postgraduate or higher research
 - Independent researchers with proven research experience also eligible
- **Fellowship Support:**
 - **Financial grant:** ₹1,00,000 for research support
 - **Duration:** **Six months**
 - Grant released in **installments linked to research progress**



Q106. Which of the following statements is/are incorrect?

1. Samudra Pratap is the most modern destroyer inducted by Indian Navy.
2. Samudra Pratap is built indigenously by Goa Shipyard Limited (GSL)

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Samudra Pratap

- **Commissioned by:** **Indian Coast Guard (ICG)**
- Dedicated **Pollution Control Vessel (PCV)** for marine environmental protection
- **Primary Functions:**
 - **Oil spill response** and recovery at sea



- **Marine pollution monitoring** and containment
- **Chemical dispersant spraying**
- **Support during maritime environmental emergencies**
- **Indigenous Content:**
 - **Indigenously built** under the **Make in India** initiative
 - Constructed by **Goa Shipyard Limited (GSL)**
- **Operational Features:**
 - Equipped with **state-of-the-art oil spill detection and recovery systems**
 - Capable of operating in **harsh sea conditions**
 - Can undertake **aerial surveillance coordination** for pollution response
- **Strategic Significance:**
 - Strengthens India's compliance with **MARPOL Convention**
 - Enhances India's capability under **National Oil Spill Disaster Contingency Plan (NOS-DCP)**
 - Supports **Blue Economy** and **coastal environmental security**
 - **Other Sister Vessels (ICG PCVs):** Samudra Prahari, Samudra Paheredar, Samudra Pehlu, Samudra Sarvekshak.

Q107. Consider the following statements regarding Subansiri Lower Hydroelectric Project:

1. It is a part of Ganga River System.
2. It is India's largest hydroelectric project.
3. The Powerhouse is in Assam, dam is in Arunachal Pradesh

How many of these statements is/are correct?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: D

Explanation: Subansiri Lower Hydroelectric Project (SLHEP)

- **Type: Run-of-the-river** hydroelectric project
- **Installed Capacity: 2,000 MW** (8×250 MW)
- **Status: India's largest hydroelectric project.**
- **Location: On the Assam–Arunachal Pradesh border**
- On **Subansiri River**, a tributary of the **Brahmaputra**
- Powerhouse in **Assam**, dam in **Arunachal Pradesh**
- **Implementing Agency: NHPC Limited**
- **Concrete gravity dam**
- Concerns over **seismic vulnerability** (Zone V)
- Subansiri → **Brahmaputra River system**



Q108. Which of the following statements about Good Governance Day is/ are incorrect:

1. The day marks the birth Anniversary of Mahatma Gandhi.
2. It is celebrated to promote awareness about accountability, transparency, and citizen-centric governance in India.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: (PIB)

- **Observed on: 25 December Good Governance Day** every year. Birth anniversary of **Atal Bihari Vajpayee**, former Prime Minister of India
- **Purpose:** To promote awareness about **accountability, transparency, and citizen-centric governance** in India
- Earlier observed as **Good Governance Week (Sushasan Saptah)** in recent years, culminating on 25 December
- **Key Objectives:**
 - Improve **public service delivery**
 - Ensure **effective implementation of government policies**
 - Promote **minimum government, maximum governance**
- **Associated Initiatives:**
 - **Good Governance Index (GGI)** by **Department of Administrative Reforms and Public Grievances (DARPG)**
 - Emphasis on **e-Governance**, grievance redressal (e.g., **CPGRAMS**)
- Nodal Ministry: **Ministry of Personnel, Public Grievances and Pensions**



Q109. Which of the following statements is/are incorrect regarding Rare Earth Mud:

1. It is deep-sea sediment (mud) enriched with Rare Earth Elements (REEs).
2. It can be found generally at depths of **3,500–6,000 metres**.
3. Japan is set to test mine rare-earth mud from deep seabed

Options:

- A. 2 and 3 Only
- B. 1 Only
- C. 1 and 2 Only
- D. None

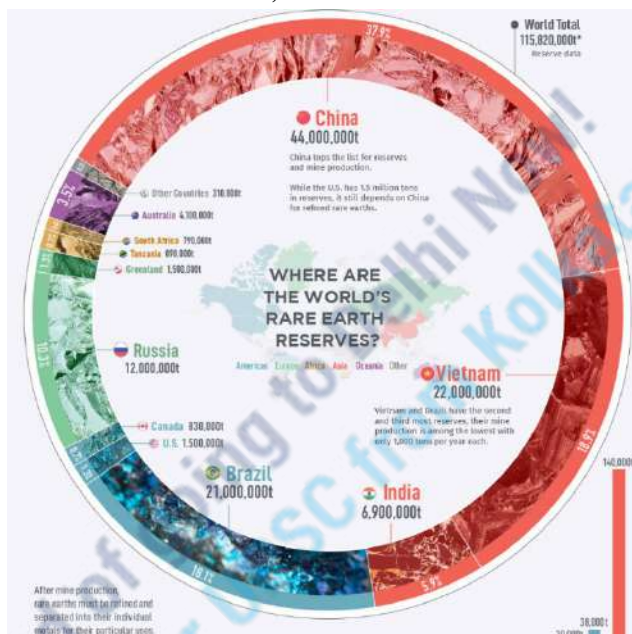
Ans: D

Explanation: Rare Earth Mud

- **What it is:** Deep-sea sediment (mud) enriched with **Rare Earth Elements (REEs)** such

as **Neodymium (Nd), Dysprosium (Dy), Terbium (Tb), Yttrium (Y)** etc.

- Found on **deep ocean floors**, especially in the **Pacific Ocean**; identified within some **Exclusive Economic Zones (EEZs)**.
- Generally located at depths of **3,500–6,000 metres**.
- **Key Feature:**
 - REEs are **adsorbed on clay minerals**, making extraction **potentially easier** than hard-rock mining.
- **Strategic Importance:**
 - Critical for **electronics, EVs, wind turbines, defence systems**.
 - Can reduce dependence on **China-dominated REE supply chains**.
- **Japan's Discovery:** Japan has identified **highly concentrated REM deposits** in its Pacific EEZ, considered commercially viable. Japan is set to test mine rare-earth mud from deep seabed
- **Governance:** Activities beyond national jurisdiction regulated by **International Seabed Authority (ISA)** under **UNCLOS**.



Q110. Consider the following statements:

1. Freshwater sponges show exceptional ability to bioaccumulate heavy metals.
2. Sponges are among the youngest and most primitive multicellular organisms on Earth,
3. They have symbiotic relation with their host.

Choose the correct option:

- A. Only one statement is incorrect
- B. Only 2 statements are incorrect
- C. All the statements are incorrect
- D. None of the above

Ans: A

Explanation: Freshwater sponges in the Sundarbans show exceptional ability to **bioaccumulate heavy metals**, making them reliable bioindicators.

- Their dual role in pollution detection and bioremediation offers a sustainable, ecosystem-based approach to managing toxic metal contamination.
- Sponges are simple, aquatic animals belonging to the phylum Porifera. They are among the oldest and most primitive multicellular organisms on Earth, with a fossil record dating back over 600 million years.

Key Characteristics of Sponges:

- a. **No True Tissues or Organs**
- b. **Filter-Feeding Mechanism:** They draw in



water through numerous pores (ostia) on their body surface. Specialized cells called choanocytes (collar cells) trap and ingest bacteria, plankton, and organic particles from the water, which is then expelled through larger openings called oscula.

c. **Skeleton:** They possess a simple skeleton made of mineral.

- **Habitat:** Mostly marine, but some species live in freshwater (like those studied in the Sundarbans).
- **Symbiotic Relationship** with the host.

Bioaccumulation

- **Bioaccumulation** is the gradual buildup of **persistent toxic substances**, such as **heavy metals**, within a single **organism** when intake from the environment, water, air, or food exceeds its ability to **metabolize or excrete** them.
 - Unlike **biomagnification**—which occurs across a **food chain**—bioaccumulation occurs at the **individual level** and drives biomagnification.

Q111. Which of the following statements is/are incorrect?

1. Pradhan Mantri Gram Sadak Yojana (PMGSY) is under Ministry of Rural Development.
2. It aims to Provide all-weather road connectivity to eligible unconnected rural habitations.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: D

Explanation: Ministry: Ministry of Rural Development

- **Objective:** Provide **all-weather road connectivity** to eligible unconnected rural habitations.
- PMGSY completed 25 years in December 2025
- **Key Features**
 - **Nature:** Centrally Sponsored Scheme (CSS)
 - **Funding Pattern:**
 - A. **Plains:** 60:40 (Centre:State)
 - B. **NE & Himalayan States:** 90:10
 - C. **UTs:** 100% Central funding
- **Eligibility of Habitations (as per Census 2001):**
 - **Plain areas:** Population ≥ 500
 - **Hill/Tribal/Desert/Left Wing Extremism (LWE) areas:** Population ≥ 250
- **Road Type:** New connectivity roads and upgradation of existing rural roads.
- **Implementation & Monitoring**
 - **Nodal Agency:** National Rural Infrastructure Development Agency (NRIDA)



- **Execution:** State Rural Roads Development Agencies (SRRDAs)
- **Monitoring Tools:**
 - **OMMAS (Online Management, Monitoring & Accounting System)**
 - **GIS mapping and e-Marg system**
 - **Third-party quality audits**

Q112. Consider the following statements regarding Micrometeoroids and Orbital Debris:

1. Naturally occurring tiny particles (often < 1 mm) originating from asteroids or comets are called orbital debris.
2. Human-made objects in Earth orbit that no longer serve any function are called micrometeoroids.
3. NETRA Project for debris tracking is an initiative of NASA.

How many of these statements is/are incorrect?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: C

Explanation: Micrometeoroids: Naturally occurring **tiny particles** (often < 1 mm) originating from **asteroids or comets** that travel through space at **very high velocities**.

- **Orbital Debris (Space Debris): Human-made objects** in Earth orbit that no longer serve any function (defunct satellites, fragments from collisions, rocket parts).
- India: ISRO's Space Situational Awareness (SSA) and NETRA Project for debris tracking.
- Global: UN COPUOS guidelines on space debris mitigation. ESA & NASA debris monitoring networks.

Q113. Which of the following statements about Rhino horn is/ are correct:

1. Horn of Rhino is made of bone.
2. Rhino horns **regrow naturally** and may need repeat dehorning every **1–3 years**.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: B

Explanation: A **conservation practice** in which a rhinoceros's **horn is safely removed** (trimmed) to **deter poaching**, as horns are the main target of illegal wildlife trade.

- **Horn Composition:** Made of **keratin** (same as human hair and nails) — **not bone**.

- **Procedure:**

- Done by trained veterinarians under **sedation**.
- Horns of Rhinos **regrow naturally** and may need repeat dehorning every **1–3 years**. **cut above the growth plate** to avoid injury.
- Comparable to **cutting fingernails** in terms of pain.

Q114. Which of the following statements is/are correct regarding Artificially Intelligent Lab Assistant (AILA):

1. AILA is an AI-powered laboratory assistant designed to automate, assist and optimise laboratory research processes, especially in scientific and chemical labs.
2. It aligns with Digital India and AI for Science initiatives.
3. Autonomous experiment execution is not a feature of AILA.

Options:

- A. 2 and 3 Only
- B. 1 and 3 Only
- C. 1 and 2 Only
- D. All of the above

Ans: C

Explanation: AILA is an **AI-powered laboratory assistant** designed to **automate, assist and optimise laboratory research processes**, especially in scientific and chemical labs.

Key Features

- Uses **Artificial Intelligence (AI) and Machine Learning (ML)** algorithms.
- **Developed by:** Indian Institute of Technology (IIT) Delhi, in collaboration with research teams from Denmark and Germany.
- **Aim:** To automate complex laboratory experiments, reduce human effort and time, and accelerate discoveries in materials science and experimental physics.
- Aligns with **Digital India** and **AI for Science** initiatives.
- Supports **Atmanirbhar Bharat** by strengthening indigenous R&D capabilities.
- **Applications**
 - **Chemical sciences** (reaction optimisation, material discovery)
 - **Pharmaceutical research** (drug discovery support)
 - **Materials science**
 - **Academic and industrial laboratories**
- **Key features:** Autonomous experiment execution, Real-time decision-making, End-to-end workflow, Time efficiency, Adaptive intelligence.

Q115. Consider the following statements:

1. Nanobots are microscopic robots, typically in the size range of 1–100 nanometres.
2. They can access dense and poorly vascularised tumours invisible to conventional scans.
3. Nanobots can act as drug carriers, therapeutic agents, and imaging beacons.

Choose the correct option:

- A. Only one statement is incorrect
- B. Only 2 statements are incorrect
- C. All the statements are incorrect
- D. None of the above

Ans: D

Explanation: Nanobots (Nanorobots)

- Nanobots are **microscopic robots**, typically in the size range of **1–100 nanometres**, designed to perform specific tasks at the **cellular or molecular level**.
- **Key Characteristics**
 - Operate at **nanoscale** (comparable to DNA, proteins).
 - Can be **programmable** and **autonomous or externally controlled**.
 - **Targeted precision:** Preferentially bind to cancer cells, reducing collateral damage to healthy tissues.
 - **Deep tissue penetration:** Can access dense and poorly vascularised tumours invisible to conventional scans.
 - **Multifunctionality:** Act as drug carriers, therapeutic agents, and imaging beacons (visible under MRI).
 - **Biocompatible materials:** Made of silica and iron, materials already used safely in medical applications.
 - **Broad applicability:** Proven effective against ovarian and breast cancer cells, bacteria, and dental infections; potential use in dentistry and regenerative medicine.
- **Applications-** **Medical** (Targeted drug delivery, Precision surgery etc.), **Environmental** (Pollutant detection and removal, Water purification), **Industrial** (Precision manufacturing, Nano-assembly etc.)



Context: An IISc Bengaluru–led breakthrough on magnetic nanobots for targeted cancer therapy has gained global attention after Dr Ambarish Ghosh won the 2025 New York Academy of Sciences–Tata Sons Transformation Prize

Q116. Which of the following statements is/are incorrect?

1. The Blue Line is a World Bank demarcated line marking Israel's withdrawal from southern Lebanon.
2. The area is controlled by United Nations Interim Force in Lebanon.

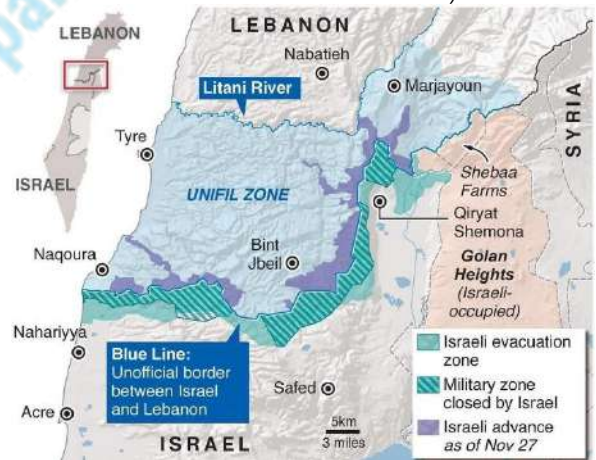
Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: The **Blue Line** is a **UN-demarkated line** marking Israel's withdrawal from southern Lebanon.

- **Established by:** United Nations in 2000
- **Purpose:** To verify Israel's complete withdrawal from Lebanon as per UN Security Council Resolution (UNSCR) 425 (1978).
- **Nature:**
 - Not an international border
 - A temporary withdrawal line for monitoring purposes
- **Length:** Approximately 120 km
- **Monitored by:** UNIFIL (United Nations Interim Force in Lebanon)
- **Weapons-free buffer:** Resolution 1701 calls for a zone free of armed groups between the Blue Line and the Litani River (except Lebanese armed forces and UNIFIL).
- **Countries Involved:** Israel, Lebanon
- **Key Disputed Areas:**
 - Shebaa Farms region (claimed by Lebanon, controlled by Israel)
 - Ghajar village
- **Strategic Importance:**
 - Frequent flashpoint for Israel–Hezbollah tensions
 - Vital for maintaining ceasefire and regional stability

**Q117. Consider the following statements regarding Infrastructure Bonds:**

1. These are generally short-term investment instrument.
2. Only government banks are authorized to issue these bonds.
3. Retail investor can invest in these funds.

How many of these statements is/are incorrect?

- A. 1 and 2 Only
- B. 1 and 3 Only
- C. All of the above
- D. 2 and 3 only

Ans: A

Explanation: Meaning: Debt instruments issued to raise long-term funds for **infrastructure projects** like roads, railways, power, ports, and urban infrastructure.

- **Can be issued by:** Government agencies, Public Sector Enterprises (PSEs), Financial institutions (e.g., **NHAI, PFC, REC**)
- **Tenure:** Generally **long-term** (10–30 years)
- **Interest Rate:** Fixed or floating; usually **lower risk** compared to corporate bonds
- **Purpose:**
 - Bridge **infrastructure financing gap**
 - Reduce dependence on **bank lending**
 - Provide stable funding for capital-intensive projects
- **Investors:**
 - Institutional investors & Retail investors
- **Advantages:**
 - Long-term capital for infrastructure
 - Matches long gestation of projects
 - Encourages **bond market development**



Q118. Which of the following statements about Somaliland is/ are correct:

1. Italy has become the first country to formally recognise Somaliland as an independent sovereign state.
2. It is Located near Bab-el-Mandeb Strait.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: B

Explanation: Location: Horn of Africa, **northwestern part of Somalia**

- **Status: De facto independent since 1991.** Considered part of **Somalia de jure**
- **Israel has become the first country to formally recognise Somaliland as an independent sovereign state**, triggering sharp opposition from Somalia, the African Union, and key regional powers.
- **Capital: Hargeisa**
- **Borders:** Djibouti (North-West), Ethiopia (South & West), Puntland region of Somalia (East), Gulf of Aden (North)
- **Historical Background:** Former **British Somaliland**



- Gained independence in 1960, later merged with Italian Somaliland
- Declared independence after collapse of Somali central government (1991)
- **Political System:** Functioning **democratic system** with elections
 - Own **constitution, parliament, judiciary, currency, and security forces**
- **Currency: Somaliland Shilling**
- **Strategic Importance:** Located near **Bab-el-Mandeb Strait**, a critical global trade route.
 - **Berbera Port** leased to UAE-based DP World

Q119. Which of the following statements is/are correct regarding INS Vagsheer:

1. It is India's third indigenously built nuclear submarine.
2. It is built under Project-75 of the Indian Navy.
3. It is built with technology transfer from Naval Group, France.

Options:

- A. 2 and 3 Only
- B. 1 and 3 Only
- C. 1 and 2 Only
- D. All of the above

Ans: A

Explanation: INS Vagsheer

- Diesel-Electric Attack Submarine (SSK)
- Kalvari-class submarine (Scorpene-class)
- Built under Project-75 of the Indian Navy
- Builder: Mazagon Dock Shipbuilders Limited (MDL), Mumbai with technology transfer from Naval Group, France
- "Vagsheer" means "Sea Tiger". Named after an earlier submarine of the Indian Navy
- Sixth and final submarine of the Kalvari-class series
- Key Capabilities:
 - Advanced stealth features
 - Precision-guided torpedoes and anti-ship missiles
 - Effective for anti-surface warfare, anti-submarine warfare, intelligence gathering
- Kalvari-class Submarines: Kalvari, Khanderi, Karanj, Vela, Vagir, Vagsheer



President Murmu during the submarine sortie, Sunday. PTI

Q120. Consider the following statements:

1. Dutch disease is an economic phenomenon where a boom in natural resource exports leads to decline of manufacturing and agriculture.
2. Investment from other sectors get diverted to natural resources.
3. In this condition imports become cheap and local good becomes expensive.

Choose the correct option:

- A. Only one statement is incorrect
- B. Only 2 statements are incorrect
- C. All the statements are incorrect
- D. None of the above

Ans: D

Explanation: Dutch Disease

- An economic phenomenon where a boom in **natural resource exports** (or large foreign inflows) leads to **decline of manufacturing and agriculture**.
- **Origin of Term:** Coined after the **Netherlands' discovery of natural gas (1960s)**, which weakened its manufacturing sector.
- **Core Mechanism:**
 - Large foreign currency inflows (due to export of natural resources) → **Currency appreciation**
 - Exports become costlier → **Loss of competitiveness** of non-resource sectors
- **How it Manifested in Venezuela:**
 - **Currency Appreciation-** making imports cheap and local goods expensive.
 - **Decline in Other Sectors:** Local industries couldn't compete with cheap imports, leading to their collapse, while agriculture also suffered from labor shifts and neglect.
 - **Resource Movement Effect:** Labor and investment shifted towards the oil sector, starving other productive areas.
 - **Unsustainable Spending:** High oil prices funded massive government spending and social programs (Chávez's era), creating an illusion of prosperity while neglecting diversification and infrastructure.
 - **Vulnerability:** The economy became a "petrostate," entirely dependent on oil, making it extremely vulnerable to price drops, as seen in the deep crisis and hyperinflation.

Q121. Which of the following statements is/are incorrect?

1. Ol Chiki is the indigenous script of the Odia language.
2. The script has 30 basic letters which are derived from Devnagari.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: C**Explanation:** *Ol Chiki* is the indigenous script of the Santhal (Santali) language.

- **Community & Region:** Used by the **Santhal tribe**, one of the largest tribal groups in India.
- **Script Features:** Has **30 basic letters** (vowels and consonants).
 - Script is **phonetic and alphabetic**, not derived from Devanagari or Roman.
 - Written **left to right**.

Q122. Consider the following statements regarding INSV Kaundinya:

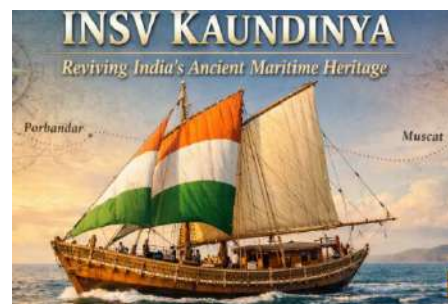
1. It is India's first stitched sail ship, built using ancient shipbuilding techniques.
2. The ship is powered by diesel engine.
3. It is inspired by a 5th century CE ship depiction from the Ajanta Caves.

How many of these statements is/are incorrect?

- A. Only I statement
- B. Only II statements
- C. Only III statements
- D. None of the above.

Ans: A**Explanation:** INSV Kaundinya is India's first stitched sail ship, built using ancient shipbuilding techniques.

- **Purpose:** Part of a **cultural-maritime initiative** to revive and showcase **India's ancient seafaring and shipbuilding heritage**.
- **Stitching Technique:** Built using the **stitched-plank method**, where wooden planks are **stitched together with coir rope**, without nails or metal fasteners.
- **Historical Inspiration:** Inspired by a **5th century CE ship depiction** from the **Ajanta Caves (Maharashtra)**.
- **Construction:** Constructed at **Hodi Innovations, Goa**.
- **Flagged off by the Indian Navy.**
- Named after **Acharya Kaundinya**, an ancient Indian mariner and trader associated with **early Indian maritime links with Southeast Asia** (Funan/Champa region).
- **Key Feature: Single-masted sail ship**, fully **wind-powered**, no modern propulsion.
- Project supported by the **Indian Navy, Ministry of Culture**, and maritime heritage institutions.



- The Engine-Less ship has started to sail from India to Oman.

Q123. Which of the following statements about NPA is/ are correct:

1. When a loan becomes overdue for 90 days it becomes NPA.
2. High NPA indicates stress in banking system and increased lending capacity

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Gross Non-Performing Asset (GNPA) refers to the **total value of loans** classified as NPAs **before provisioning**.

- **When a loan becomes NPA:**
 - **Interest or principal overdue for more than 90 days.**
- **GNPA Ratio = (Gross NPAs / Gross Advances) × 100**
- **Significance:**
 - Indicator of **asset quality** of banks.
 - Higher GNPA → **stress in banking system**, reduced lending capacity.
- **Regulator:** Classification governed by **RBI prudential norms**.
- **Prelims Trap:**
- **Special Mention Accounts (SMA):** Accounts showing **incipient stress**, but **not yet NPAs**.
- **Objective:** **Early detection of stress** and timely corrective action by banks.
- **Types of SMA (Based on Overdue Period)**

Category	Overdue Period
SMA-0	Principal or interest overdue up to 30 days
SMA-1	Overdue 31–60 days
SMA-2	Overdue 61–90 days

- After **90 days overdue** → **account becomes NPA**.

Q124. Which of the following statements is/are correct regarding Rashtriya Vigyan Puraskar:

1. It is introduced by Ministry of Science and Technology.
2. It recognises lifetime and path-breaking contributions, and promote scientific temper.
3. It has 4 categories and only citizens of India can be a recipient of the award.

Options:

- A. 2 and 3 Only
- B. 1 and 3 Only
- C. 1 and 2 Only
- D. All of the above

Ans: C

Explanation: Rashtriya Vigyan Puraskar (RVP) is a new national-level award system instituted by the Government of India to honour contributions in science, technology, and innovation.

- **Introduced by:** Ministry of Science & Technology (Government of India).
- **First Announced:** 2024 (replacing older S&T awards framework).
- **Objective:** To recognise lifetime and path-breaking contributions, and promote scientific temper.
- **Replaces:** Shanti Swarup Bhatnagar Prize, Vigyan Ratna, Vigyan Shri, and Vigyan Yuva–Shanti Swarup Bhatnagar awards (integrated into a unified system).
- **Categories (4 tiers):**
 - **Vigyan Ratna** – Lifetime contributions to science & technology
 - **Vigyan Shri** – Distinguished contributions in specific fields
 - **Vigyan Yuva** – Young scientists (below a specified age)
 - **Vigyan Team** – Team-based scientific contributions
- **Eligibility:** Open to **Indian citizens** and **Persons of Indian Origin (PIOs)**.
- **Fields Covered:** Physical sciences, life sciences, engineering, medicine, earth sciences, mathematics, and interdisciplinary areas.



President Murmu Gives Away First-Ever Rashtriya Vigyan Puraskar

Q125. Consider the following statements:

1. It is located in tri junction of Odisha Bengal and Jharkhand.
2. The vegetation is dominated by **moist deciduous forests** with **sal and teak**.
3. It is a UNESCO World Heritage Site.

Choose the correct option:

- A. Only I statement is incorrect
- B. Only II statements are incorrect
- C. All the statements are incorrect
- D. None of the above

Ans: B

Explanation: Kanger Valley National Park

- **Location:** Situated in **Bastar district, Chhattisgarh**.
- Named after the **Kanger River**, a tributary of the **Kolab River** (Godavari basin).
- **Geographical Features:** Part of the **Eastern Ghats**.
 - Characterised by **limestone caves, valleys, streams, and dense forests**.
 - **Moist deciduous forests** with **sal and teak** dominance.
 - **Fauna:** **Bastar Hill Myna** (State bird of Chhattisgarh), Tiger, leopard, sloth bear, wild dog (dhole), Rich **bat population** inside caves.
- **Flora:** Teak, Sal, Bamboo, Mahua.
- Part of a proposed **UNESCO World Heritage Site** under the category of “**Caves of Central India**”.
- **Cultural Aspect:**
 - Located in the **tribal-dominated Bastar region**; associated with indigenous communities.
- **Prelims Fact to Remember:**
 - **Only National Park in Bastar region of Chhattisgarh.**
- **Context:** Kanger Valley National Park has come into focus as the Chhattisgarh government, with support from the Wildlife Institute of India (WII), has initiated biodiversity surveys to seek its recognition as a UNESCO World Heritage Site.

Q126. Which of the following statements is/are incorrect?

1. Dhruv Helicopter is developed by DRDO.
2. It is powered by Shakti engine developed jointly by India and France.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A

Explanation: Developer: Hindustan Aeronautics Limited (HAL)

- **Engine:** Powered by **Shakti engines** (jointly developed by HAL & Safran, France)

Q127. Consider the following statements regarding industrial hemp:

1. They are psychoactive variety of cannabis.
2. Maharashtra has recently allowed cultivation of industrial hemp.
3. These were initially native to Central and South Asia

How many of these statements is/are incorrect?

- A. Only I statement
- B. Only II statements
- C. Only III statements
- D. None of the above.

Ans: B

- **Explanation: Type: Non-psychoactive** variety of cannabis
- **Key distinction:**
 - Very low **THC (tetrahydrocannabinol)** content
 - THC generally $\leq 0.3\%$ (international standard)
- **Origin:**
 - Native to Central and South Asia, with millennia-old use in textiles, ropes, paper, and medicine
 - Now legally cultivated across parts of Europe, North America, and Asia under regulated THC thresholds
- **Uses: Fibre, Industrial products, Seeds** (Edible oil, protein-rich food, animal feed), **Cosmetics & wellness products** (non-narcotic).
- **Environmental Benefits**
 - Requires **less water** than cotton
 - **Fast-growing** crop (90–120 days)
 - Improves **soil health** and reduces weed growth
 - Acts as a **carbon sink** (high biomass)
- **Legal Status in India**
 - Regulated under the **NDPS Act, 1985**
 - Cultivation allowed for **industrial and horticultural purposes** with **state government permission**
 - **Leaves and seeds** (not resin) are excluded from definition of narcotic drugs under NDPS
- **Indian Initiatives**– Pilot cultivation allowed in states like **Uttarakhand, Uttar Pradesh, Madhya Pradesh**
- **Context:** Himachal Pradesh has legalised and initiated regulated cultivation of industrial hemp under the ‘Green to Gold’ initiative to promote a bio-economy–led growth model.



Q128. Which of the following statements about Sankardeva is/ are correct:

1. He was the founder of Ekasarana dharma.
2. He established Satras which were community prayer halls.

Options:

- A. Only 1
- B. Only 2
- C. Both of the above
- D. None of the above

Ans: A**Explanation: Religious Contribution**

- Founder of **Ekasarana Dharma**
- Monotheistic Vaishnavite movement
- Devotion to **Lord Krishna** as the sole deity
- Emphasised **bhakti (devotion)**, equality, and rejection of caste discrimination
- Stressed **Naam (chanting God's name)** as the path to salvation
- **Institutional Innovations**
 - Established **Satras** (Vaishnavite monasteries)
 - Introduced **Namghars** (community prayer halls)
 - Acted as centres of worship, culture, and social cohesion

**Q129. Which of the following statements is/are correct regarding Narsapuram Lace Craft:**

1. It is a modern day craft made with the help of machines.
2. It **has** strong influence of **European lace-making techniques**
3. It is an important source of **livelihood and women empowerment**

Options:

- A. 2 and 3 Only
- B. 1 and 3 Only
- C. 1 and 2 Only
- D. All of the above

Ans: A**Explanation: Narsapuram Lace Craft**

- **Type:** Traditional **handmade lace craft**
- **Region:** Narsapuram, West Godavari district, **Andhra Pradesh**
- **GI Status:** Granted **Geographical Indication (GI)** tag (India)
- **Origin & History**
 - Introduced in the **19th century** during British colonial period



- Strong influence of **European (especially Irish/Belgian) lace-making techniques**
- Gradually adapted into indigenous designs
- **Raw Materials**
 - Fine **cotton threads**
 - Sometimes blended with silk or synthetic yarns
- **Technique: Handmade needle lace** technique
 - Intricate looping and knotting of threads
- Primarily practiced by **women artisans**
- Home-based cottage industry
- Important source of **livelihood and women empowerment**

Q130. Consider the following statements:

1. Pinaka Long Range Guided Rocket System has a strike range of 150 km.
2. Navigation for Pinaka system is aided by GPS.
3. The system is developed by BHEL.

Choose the correct option:

- A. Only I statement is incorrect
- B. Only II statements are incorrect
- C. All the statements are incorrect
- D. None of the above

Ans: A

Explanation: Pinaka Long Range Guided Rocket System (LRGR)

- **India** successfully conducted the **maiden flight test** of the indigenously **Pinaka Long Range Guided Rocket (LRGR 120)**, with a **strike range** of approximately **120 kilometers**.
- **Type:** Indigenous **guided rocket artillery system**
- **Based on:** Pinaka Multi-Barrel Rocket Launcher (MBRL) family
- **Developer:** DRDO
- **Key Features**
 - **Guided rocket:** Uses **navigation, guidance and control kit**
 - **High accuracy:** Circular Error Probable (CEP) significantly reduced compared to unguided rockets
 - **All-weather, day-night capability**
 - **Shoot-and-scoot** to evade enemy counter-battery fire
- **Guidance System**
 - **INS + GPS aided guidance**

