

General Studies

Current Affair Test (September-2024)

V-09**DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO**

Time Allowed: 2 Hours

Maximum Marks: 200

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Encode clearly the Test Paper Code Number in the appropriate place in the response sheet.
3. You have to enter your Roll Number on the Test Booklet in the box provided alongside.

DO NOT write *anything else* on the Test Booklet.

4. This Test Booklet contains 100 questions. Each question is printed both in Hindi and English. Each question comprises four responses (answers). You will select one response, which you want to mark on the Response Sheet. In case you feel that there is more than one correct response, mark the response, which you consider the best. In any case, choose Only ONE response for each item. More than one response will be treated as wrong answer.
5. In case you find any discrepancy in this test booklet in any questions or the Responses; a written representation explaining the details of such alleged discrepancy, be submitted within three days, indicating the No.s and the Test Booklet Series, in which the discrepancy is alleged Representation not received within time shall not be entertained at all.
6. You have to mark all your responses **ONLY** on the separate Response Sheet provided
7. All questions carry equal marks.
8. **Penalty for wrong answers :**

IN THE OBJECTIVE TYPE QUESTION PAPERS.

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, one-third of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answer happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank, i.e. no answer is given by the candidate, there will be no penalty for that question.
9. Before you proceed to mark in the Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Response Sheet.
 10. While writing Name and Roll No. on the top of the Response Sheet in appropriate boxes use "Only BALL POINT PEN". Use BALL POINT PEN to fill all the remaining ovals in OMR Sheet.
 11. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator question Book let and OMR Response Sheet. You are not permitted to take away the Test Booklet.

ध्यान दें : अनुदेशों का हिंदी रूपांतर इस पुस्तिका के अंतिम पृष्ठ पर छपा है ।

Q1. Which of the following is true about the recent expansion of the Agricultural Infrastructure Fund (AIF) by the Union Cabinet?

- (a) The expansion primarily focuses on large agribusinesses rather than small-scale farmers.
- (b) The AIF now provides Financial support specifically for Farmers' Producers Organisations (FPOs).
- (c) The AIF's scope has been reduced to concentrate on fewer types of agricultural infrastructure projects.
- (d) The total budget of the AIF has been significantly increased to 2 lakh crore.

Q2. Consider the following statements regarding quasars:

- 1. Quasars are the extremely luminous cores of distant galaxies.
- 2. Quasars are powered by supermassive black holes at their centers.
- 3. Quasars emit light due to nuclear fusion occurring in their outer layers.

How many of the above statements is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

Q3. Which of the following statements is true regarding the current Chandipura virus (CHPV) outbreak in India?

- (a) The outbreak has primarily affected the southern states of India.
- (b) WHO has recommended travel and trade restrictions due to the outbreak.
- (c) A vaccine for the Chandipura virus is widely available.
- (d) The Chandipura virus is known to cause acute encephalitis syndrome (AES).

Q4. Consider the following statements regarding the northern bald ibis:

- 1. The northern bald ibis was once extinct in Europe due to hunting.
- 2. The species has been revived through breeding and rewilding efforts.
- 3. The northern bald ibis is currently classified as critically endangered by the IUCN.

Which of the above statements is/are correct?

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

Q5. Which of the following statements best describes the function of the parabolic concentrator in Solar Paraboloid Technology?

- (a) It directly converts sunlight into electricity using photovoltaic cells.
- (b) It absorbs sunlight and stores it for later use.
- (c) It diffuses sunlight to reduce the intensity for safe industrial use.
- (d) It focuses and concentrates sunlight onto a small area to generate high temperatures.

Q6. Which of the following is true about the Central Financial Assistance (CFA) approved by the Indian Union Cabinet for hydroelectric projects in the North Eastern Region (NER)?

- (a) The CFA will fund 100% of the state government's equity in hydroelectric projects.
- (b) The CFA applies to all hydroelectric projects in India, including those outside the NER.
- (c) The CFA is only available for projects that are deemed viable.
- (d) None of the above

Q7. Consider the following statements regarding the Pacific Policing Initiative (PPI) recently agreed upon at the Pacific Islands Forum (PIF):

- 1. The PPI includes the establishment of a central police development hub in Australia.
- 2. The initiative is primarily funded by Australia but is driven by Pacific Island countries.
- 3. The PPI represents a continuation of past security initiatives that were led by external powers.

Which of the above statements is/are correct?

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

Q8. Consider the following statements regarding the BioE3 Policy:

- 1. The policy exclusively focuses on healthcare and pharmaceutical manufacturing.
- 2. It includes provisions for building capacity through internships and fellowships.
- 3. Marine and space research are among the thematic sectors covered under the policy.

How many of the above statements is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

Q9. Which pension scheme replaced the Old Pension Scheme (OPS) for government employees who joined service after January 1, 2004?

- (a) National Pension Scheme (NPS)
- (b) Unified Pension Scheme (UPS)
- (c) New Pension Scheme (NPS)
- (d) Pension Fund Regulatory Scheme (PFRS)

Q10. Which of the following is true about the Agricultural Infrastructure Fund (AIF) launched by the Government of India in July 2020?

- (a) The AIF is designed exclusively for post-harvest infrastructure projects.
- (b) The AIF provides only grants, not loans or credit.
- (c) The AIF is part of the broader Atma Nirbhar Bharat initiative.
- (d) The AIF has no provision for financing projects led by Farmers' Producers Organisations (FPOs)

Q11. The National Medical Register (NMR) Portal, launched by the Union Minister for Health, is a digital database for which of the following?

- (a) Registered nurses in India
- (b) Registered Ayurvedic practitioners in India
- (c) Registered allopathic (MBBS) doctors in India
- (d) Registered medical technicians in India

Q12. What is the primary purpose of Bharat Biotech's Hill Chol (BBV131) vaccine?

- (a) To prevent tuberculosis
- (b) To treat dengue fever
- (c) To combat cholera
- (d) To prevent malaria

Q13. What is the primary technology used in the development of the needle-free intranasal COVID-19 booster vaccine by Indian Immunologicals Ltd (IIL) in collaboration with Griffith University?

- (a) mRNA technology
- (b) Inactivated virus technology
- (c) Vector-based vaccine technology
- (d) Codon deoptimization technology

Q14. With reference to the recent ban on fixed dose combination (FDC) drugs by the Indian government, consider the following statements:

1. FDCs are a combination of two or more drugs in a single dose, always used to enhance therapeutic effects.
2. The ban on 156 FDC drugs was due to concerns over their irrational use and lack of therapeutic benefit.
3. Overuse of FDCs has the potential to contribute to global health issues such as antibiotic resistance.

How many of the above statements is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

Q15. With reference to the Unified Lending Interface (ULI), consider the following statements:

1. ULI involves the use of advanced technologies like APIs and secure digital platforms.
2. ULI aims to reduce the cost of borrowing by offering government-subsidized interest rates.
3. ULI seeks to integrate and standardize lending processes across different financial institutions.

Which of the statements given above is/are correct?

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

Q16. Consider the following statements regarding Solar Paraboloid Technology:

1. It is a type of photovoltaic technology that directly converts sunlight into electricity.
2. It uses parabolic mirrors to concentrate sunlight onto a specific point to generate high temperatures.
3. This technology is known for its high efficiency compared to traditional photovoltaic systems.

How many of the above statements is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

Q17. Which of the following is true about the perpetual bonds issued by Canara Bank?

- (a) They have a fixed maturity date of 10 years.
- (b) They do not attract investor interest due to high risk.
- (c) They do not attract investor interest due to high risk.
- (d) They are India's First Additional Tier I perpetual bonds issued after recent regulatory changes.

Q18. Consider the following statements regarding the National Medical Register (NMR) under the National Medical Commission (NMC) Act, 2019:

1. The NMR is managed by the Ethics & Medical Registration Board (EMRB) of NMC.
2. The NMR requires doctors to submit annual reports on their practice to maintain their registration.
3. The NMR aims to enhance the digital healthcare ecosystem and ensure transparent access to quality medical professionals.

Which of the above statements is correct?

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

Q19. Consider the following statements about perpetual bonds:

1. Perpetual bonds are considered part of the equity capital of a company.
2. They provide interest payments indefinitely, without a fixed maturity date.
3. The principal of perpetual bonds is repaid after a set period, usually 30 years.

Which of the above statements is/are correct?

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

Q20. Consider the following statements about cholera:

1. Cholera is a bacterial disease that can cause rapid fluid loss and severe dehydration.
2. The primary mode of transmission for cholera is through contaminated water or food.
3. Antibiotics are the primary treatment for cholera, and rehydration therapy is secondary.

Which of the above statements is/are correct?

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

Q21. Consider the following statements regarding the New India Literacy Programme (NILP):

1. Literacy under NILP is defined solely as the ability to read and write.
2. Full literacy is defined as achieving 100% literacy in a State/UT.
3. The redefined literacy includes critical skills like digital and financial literacy.

Which of the above statements is/are correct?

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

Q22. Which of the following statements is true regarding the vegetation in the Hollongapar Gibbon Sanctuary?

- (a) The upper canopy is primarily composed of nahar trees.
- (b) The middle canopy is dominated by hollong trees.
- (c) The sanctuary's vegetation includes a variety of evergreen shrubs and
- (d) The sanctuary is characterized by sparse vegetation, with a predominance of grasses.

Q23. Which of the following factors primarily contribute to mass wasting in Tibet's Sedongpu Gully, affecting the Brahmaputra River?

- (a) Overgrazing by livestock
- (b) Unregulated mining activities
- (c) Large-scale deforestation
- (d) Warming and seismic activity

Q24. Which of the following statements accurately describes the role of state governments in the creation of new districts in India?

- (a) State governments can create new districts only with the approval of the Parliament.
- (b) State governments have the authority to create, alter, or abolish districts through executive orders or laws passed in the State Assembly.
- (c) The creation of new districts requires direct involvement of the President of India.
- (d) New districts can only be created by amending the Constitution.

Q25. Consider the following statements regarding the New India Literacy Programme (NILP):

1. NILP is a centrally sponsored scheme aimed at educating individuals aged 15 and above.
2. The program specifically targets females and backward states to reduce literacy gaps.
3. NILP provides vocational training for youth in urban areas as its main focus.

Which of the above statements is/are correct?

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

Q26. Which of the following statements is true regarding the types of mass wasting?

- (a) Landslides are characterized by the sudden and rapid movement of large amounts of soil and rock.
- (b) Rockfalls occur when large volumes of rock move gradually down a slope.
- (c) Soil creep is a rapid movement of soil downhill during an earthquake.
- (d) Avalanches involve the slow movement of soil and debris due to water saturation.

Q27. Which of the following statements accurately describes Leptospirosis?

- (a) Leptospirosis is a viral disease transmitted primarily through airborne droplets.
- (b) Leptospirosis is a zoonotic bacterial disease transmitted to humans through contaminated water, especially during the monsoons.
- (c) Leptospirosis spreads easily through human-to-human contact.
- (d) Leptospirosis is a fungal infection commonly found in arid regions.

Q28. Which of the following statements is true regarding the procedure for renaming districts in India?

- (a) Renaming districts requires a constitutional amendment.
- (b) The renaming process requires clearance from the Central Government after a proposal is submitted by the state.
- (c) State governments can rename districts without any involvement from the Central Government.
- (d) The Supreme Court of India must approve the renaming of districts.

Q29. Which of the following preventive measures is recommended to reduce the risk of leptospirosis?

- (a) Filling holes in walls to prevent rats from entering homes
- (b) Wearing masks to prevent inhalation of bacteria
- (c) Frequent use of hand sanitizers
- (d) Consuming probiotics regularly

Q30. Which of the following statements is true regarding the conservation status of hoolock gibbons?

- (a) Both eastern and western hoolock gibbons are classified as Critically Endangered by the IUCN.
- (b) Neither of the hoolock gibbon species in India is protected under Indian law.
- (c) Both species of hoolock gibbons in India are listed as Least Concern on the IUCN Red List.
- (d) The western hoolock gibbon is classified as Endangered, and the eastern hoolock gibbon is classified as Vulnerable by the IUCN.

Q31. Which of the following is a key condition for an insult or intimidation of SC/ST members to be considered an offence under the SC/ST (Prevention of Atrocities) Act, 1989, as per the Supreme Court ruling?

- (a) The insult or intimidation must be intentional.
- (b) The insult or intimidation must occur in a public place.
- (c) The insult or intimidation must be based on the victim's caste.
- (d) The insult or intimidation must involve physical harm.

Q32. Which of the following organisms is known to exhibit the phenomenon of Sonoluminescence?

- (a) Pistol shrimp
- (b) Electric eel
- (c) Jelly Fish
- (d) Fire Ely

Q33. Which of the following environmental impacts is directly linked to lithium mining in the Atacama Desert?

- (a) Increased volcanic eruptions
- (b) Significant loss of mangrove forests
- (c) Contamination of ecosystems and water scarcity
- (d) Melting of polar ice caps

Q34. Which organization is piloting the 72,000-crore Great Nicobar Island (GNI) Project?

- (a) NITI Aayog
- (b) Ministry of Home Affairs
- (c) Ministry of Environment, Forest and Climate Change
- (d) Andaman and Nicobar Administration

Q35. What is the primary objective of the Pradhan Mantri Janjati Adivasi Nyaya Maha Abhiyan (PM-JANMAN) campaign launched by the Union Ministry of Tribal Affairs?

- (a) To achieve 100% saturation of government schemes in Particularly Vulnerable Tribal Group (PVTG) areas.
- (b) To promote tribal tourism across India.
- (c) To introduce new education schemes for tribal children.
- (d) To develop infrastructure in urban tribal settlements.

Q36. What is the primary cause of the flash of light seen in Sonoluminescence?

- (a) Chemical reactions within the bubble
- (b) Rapid cooling of the bubble
- (c) Electrical discharge from the organism
- (d) Rapid collapse of a bubble caused by sound waves

Q37. Which of the following is NOT a component of the Great Nicobar Island (GNI) Project?

- (a) A transshipment port at Galathea Bay
- (b) A dual-use military-civil international airport
- (c) A power plant
- (d) A mega shopping mall complex

Q38. Which of the following offences is specifically punished under the SC/ST (Prevention of Atrocities) Act, 1989?

- (a) Offences related to dowry
- (b) Manual scavenging
- (c) Domestic violence
- (d) Theft

Q39. Which of the following national parks is located near the area designated for the township and area development in the Great Nicobar Island (GNI) project?

- (a) Galathea National Park
- (b) Campbell Bay National Park
- (c) Mahatma Gandhi Marine National Park
- (d) Rani Jhansi Marine National Park

Q40. Which of the following activities is NOT a part of the IEC campaign under PM-JANMAN?

- (a) Distribution of entitlements to PVTG members.
- (b) Organization of health camps in tribal areas.
- (c) Conducting awareness campaigns in tribal languages.
- (d) Development of urban housing projects for tribals.

Q41. What is the significance of National Space Day, celebrated on August 23 in India?

- (a) It commemorates the success of the Chandrayaan-3 mission and India's achievements in space exploration.
- (b) It marks the anniversary of India's first satellite launch.
- (c) It celebrates the establishment of ISRO.
- (d) It is a day dedicated to promoting STEM education in India.

Q42. Which of the following statements correctly describes Botswana's geographical position?

- (a) Botswana is a coastal country in Southern Africa with access to the Indian Ocean.
- (b) Botswana shares a border with Mozambique and Angola.
- (c) Botswana is a landlocked country in Southern Africa bordered by South Africa, Namibia, and Zimbabwe, and connected to Zambia via the Kazungula Bridge.
- (d) Botswana is located in East Africa and is bordered by Kenya and Tanzania.

Q43. Consider the following statements regarding the All India Initiative on Creative Economy (AIICE):

1. The AIICE aims to incorporate digital technologies into the creative economy by promoting IT-based solutions for artisans.
2. The creative economy, as targeted by AIICE, includes sectors such as film, music, design, and fashion, which are rooted in creativity and culture.
3. The initiative is expected to affect only a small percentage of India's workforce, primarily those employed in the tech industry.

Which of the above statements is/are correct?

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

Q44. Which of the following is a key feature of India's first reusable hybrid rocket, RHUMI-1?

- (a) It uses a fully liquid-fueled propulsion system.
- (b) It reached an altitude of 100 kilometers, entering low Earth orbit.
- (c) It is the first rocket developed by ISRO for human space flight.
- (d) It is designed to advance research on climate change and atmospheric conditions.

Q45. Which of the following best describes the function of mRNA in mRNA vaccines?

- (a) mRNA integrates into the host genome to provide long-term immunity
- (b) mRNA directly attacks the virus upon vaccination
- (c) mRNA serves as a blueprint for cells to produce viral proteins that trigger an immune response
- (d) mRNA triggers the production of DNA in the host cells

Q46. The Okavango Delta in Botswana is known for which of the following features?

- (a) It is a seasonal Eloodplain that becomes a lush animal habitat during Eloods.
- (b) It is a permanent, year-round swamp.
- (c) It is a desert region with little to no vegetation.
- (d) It is a mountainous region with snow-capped peaks.

Q47. What is the primary mission objective of the Tanager-1 satellite launched by NASA in collaboration with various organizations?

- (a) To monitor solar radiation and its impact on Earth's climate.
- (b) To study the impacts of deforestation on global ecosystems.
- (c) To explore the outer planets of the solar system.
- (d) To track methane and carbon dioxide emissions using imaging spectrometer technology.

Q48. Consider the following statements about mRNA vaccines:

- 1. mRNA vaccines work by directly incorporating the viral mRNA into the host DNA to produce the viral protein.
- 2. The spike protein produced by the mRNA is recognized by the immune system, which then produces antibodies and T cells.
- 3. The antibodies produced after vaccination with an mRNA vaccine prevent the virus from entering cells by binding to the spike protein.

Which of the above statements is/are correct?

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

Q49. Consider the following statements about blueberries:

- 1. Blueberries are typically grown in tropical climates with well-drained, alkaline soils.
- 2. The high anthocyanin content in blueberries contributes to their classification as a superfood due to its role in protecting cells from oxidative stress.
- 3. Regular consumption of blueberries has been linked to improved heart health, brain function, and a reduced risk of certain cancers.

Which of the above statements is/are correct?

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

Q50. Which of the following statements regarding methane is correct?

- (a) Methane is easier to detect than carbon dioxide.
- (b) Methane is more abundant in the atmosphere than carbon dioxide.
- (c) Methane emissions are primarily natural and thus require more monitoring.
- (d) Methane is a potent greenhouse gas that contributes significantly to global warming and forms ground-level ozone, which poses health risks.

Q51. What is the primary reason for the recent increase in school attendance among girls in rural areas of India?

- (a) Introduction of free midday meals
- (b) State-run free bicycle schemes
- (c) Introduction of digital classrooms
- (d) Government scholarships for girls

Q52. What is unique about Eri Silk that has earned it the Oeko-Tex certification?

- (a) It is the most expensive type of silk in India.
- (b) It requires special chemical treatment to be woven.
- (c) It is produced using genetically modified silkworms.
- (d) It is the only silk that allows the moth to exit the cocoon naturally, making it vegan.

Q53. Who is responsible for filing a First Information Report (FIR) in cases of violence against healthcare workers, according to the new directive?

- (a) The victim healthcare worker
- (b) The police department
- (c) Heads of government hospitals
- (d) The Union Health Ministry

Q54. Which of the following statements regarding the filing of a First Information Report (FIR) in India is/are correct?

- 1. An FIR is a written document prepared by the police when they receive information about the commission of a cognizable offense.
- 2. Public health is a Central subject, and there is a specific Central law for preventing violence against healthcare workers.
- 3. The FIR must be filed by the police within six hours of any violence against healthcare workers on duty.

Select the correct answer using the code given below:

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

Q55. What is the primary purpose of the "Bhavishya" software introduced by the Department of Pension and Pensioners' Welfare (DOPPW)?

- (a) To streamline tax filing for government employees
- (b) To provide a platform for filing complaints against government services
- (c) To manage the recruitment process for government jobs
- (d) To automate and streamline the pension processing system for central government employees

Q56. A tug is a particular class of boat which helps mega-ships enter or leave a port. Which of the following technologies are being considered under the Green Tug Transition Program (GTTP) to power the new green tugs?

- (a) Diesel and petrol
- (b) Solar and wind
- (c) Battery-electric, hybrid, methanol, and green hydrogen
- (d) Nuclear and geothermal

Q57. Consider the following statements about the impact of increased prokaryote dominance due to ocean warming:

1. Increased prokaryote dominance could lead to a reduction in fish populations.
2. The dominance of prokaryotes may enhance the ocean's ability to absorb carbon emissions.
3. The shift in marine ecosystems could have implications for the global food supply.

How many of the above statements is/are incorrect?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

Q58. Consider the following statements about Kazhuvelli Bird Sanctuary:

1. Kazhuvelli Bird Sanctuary is located on the Coromandel Coast in Tamil Nadu.
2. It is connected to the Bay of Bengal via Uppukalli Creek and Yedayanthittu estuary.
3. It lies within the Western Ghats biodiversity hotspot.

Which of the above statements is/are correct?

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

Q59. Where is the 90 MW Omkareshwar Floating Solar Project, commissioned by SJVN Green Energy Limited (SGEL), located?

- (a) Rajasthan
- (b) Gujarat
- (c) Madhya Pradesh
- (d) Maharashtra

Q60. Consider the following statements regarding DNA profiling:

1. DNA profiling involves analyzing the entire human genome to establish identity.
2. It is increasingly accurate but can be affected by sample contamination.
3. DNA profiling should not be the sole basis for establishing guilt or innocence in the justice system.

Which of the above statements is/are correct?

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

Q61. What is the primary objective of the FSSAI's initiative titled "Micro-and NanoPlastics as Emerging Food Contaminants"?

- (a) To ban the use of plastic in food packaging
- (b) To develop and validate methods for detecting microplastics in food products
- (c) To reduce plastic production in India
- (d) To introduce new food safety standards for organic products

Q62. Consider the following statements about the Arogya Maitri Disaster Management Cube:

1. The cube is part of the Indian Army's broader BHISHM initiative.
2. It integrates AI and data analytics for real-time monitoring during disaster management.
3. The cube's components are bulky and require heavy machinery for transportation.

Which of the above statements is/are correct?

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

Q63. Which of the following statements accurately describes the potential effects of the deep-winter heat wave in Antarctica?

1. It could lead to a reduction in the Antarctic Ice Sheet, raising global sea levels.
2. It might disrupt the global ocean circulation system, which regulates climate.
3. It could strengthen the polar vortex, leading to colder global temperatures.

How many of the above statements is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

Q64. Consider the following statements regarding Ramsar sites in India:

1. Uttar Pradesh has the highest number of Ramsar sites in India.
2. The Nanjarayan Bird Sanctuary and Kochuvelli Bird Sanctuary are located in Tamil Nadu.
3. The Tawa Reservoir, recently added as a Ramsar site, is located in Uttar Pradesh.

Which of the above statements is/are correct?

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

Q65. Consider the following statement regarding the Court of Arbitration for Sport (CAS):

1. CAS operates under the International Council of Arbitration for Sport (ICAS) and is an independent institution focused on resolving sports related disputes.
2. CAS adapts procedural rules to the unique needs of the sports world.
3. CAS has the authority to directly modify the rules of international sports federations.

How many of the above statements is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

Q66. Consider the following statements regarding the “Super Blue Moon”:

1. A “Super Moon” occurs when a full moon is at its farthest point from Earth in its orbit, making it appear larger and brighter.
2. A “Blue Moon” refers to the second full moon in a calendar month or the third full moon in a season with four full moons.
3. The occurrence of a “Super Moon” and a “Blue Moon” together is a common astronomical event.

Which of the above statements is/are correct?

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

Q67. What is the primary objective of the European Space Agency’s Jupiter Icy Moons Explorer (JUICE) mission?

- (a) To map Jupiter’s moons and investigate their subsurface water bodies for potential habitability
(b) To land on Jupiter and collect soil samples
(c) To study the effects of solar radiation on deep space probes
(d) None of the above

Q68. Which of the following best describes the immediate physiological response of the body during anaphylaxis?

- (a) A slow and mild reaction to allergens with no significant impact on bodily functions.
(b) An excessive release of insulin that leads to a sudden drop in blood sugar levels.
(c) A rapid release of chemicals by the immune system that can cause the body to go into shock.
(d) Gradual inflammation of the skin with no involvement of the circulatory system.

Q69. Consider the following statements regarding the Union Minister’s pilot program to transform Fair Price Shops (FPS) into Jan Poshan Kendras:

1. The FPS Sahay application was launched to enable paperless financing for FPS dealers.
2. Mera Ration App 2.0 was introduced to enhance services for beneficiaries.
3. The program includes NABL accreditation of laboratories to improve food quality control in the Public Distribution System (PDS).

Which of the above statements is/are correct?

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

Q70. Consider the following statements about waterspouts:

1. Waterspouts are always weaker than tornadoes and pose no significant threat.
2. Tornadic waterspouts are associated with severe thunderstorms and can cause significant destruction.
3. Fair-weather waterspouts are usually weaker and form during calm conditions.

How many of the above statements is/are correct?

- (a) Only one (b) Only two
(c) All three (d) None

Q71. Which of the following statements regarding prokaryotes in marine ecosystems is correct?

- (a) Prokaryotes include organisms with complex cell structures and a defined nucleus.
(b) Prokaryotes will decline more in biomass compared to other marine life as oceans warm.
(c) The decline of prokaryotes will have no significant impact on marine ecosystems.
(d) Prokaryotes play a vital role in supporting food chains and balancing carbon emissions in marine ecosystems.

Q72. Which of the following is a significant feature of the Small Satellite Launch Vehicle (SSLV)?

- (a) It can only launch satellites for communication purposes.
(b) It is exclusively used for launching military satellites.
(c) It provides a cost-effective, flexible, and rapid solution for satellite launches.
(d) It is designed to carry payloads exceeding 1000 kg.

Q73. What significant discovery did scientists make using data from NASA’s Mars Insight Lander?

- (a) Evidence of life on Mars
(b) Discovery of a new type of mineral on Mars
(c) Presence of liquid water deep within Mars’ crust
(d) Detection of an active volcano on Mars

Q74. Zoopharmacognosy is the study of which of the following?

- (a) The use of natural substances by animals to self-medicate
(b) The behavior of animals in extreme environments
(c) The impact of climate change on animal behavior
(d) The genetic evolution of animals in different habitats

Q75. Consider the following statements about the operational nuclear power plants in India:

1. The Rajasthan Atomic Power Station is the only operational nuclear power plant in Rajasthan.
2. The Kudankulam Nuclear Power Plant is the southernmost nuclear power plant in India.
3. The Narora Atomic Power Station is located in Uttar Pradesh.

Which of the above statements is/are correct?

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

Q76. What is the primary significance of the new genome-editing tool developed by researchers from the ICAR-National Rice Research Institute and Pennsylvania State University?

- (a) It is based on a protein from a bacterium called *Deinococcus radiodurans*.
(b) It is the first genome-editing tool designed specifically for animals.
(c) It is the largest genome-editing tool developed so far.
(d) It is used exclusively for editing the genomes of dicots.

Q77. Which of the following correctly describe the potential impact of tensions in the South China Sea on international trade?

1. Disruption in the supply chain for global trade.
2. Increased shipping costs due to rerouting of vessels.
3. Significant reduction in petroleum product transportation globally.

How many of the above statements is/are incorrect?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

Q78. What is the significance of KAPS-4, the nuclear reactor at Kakrapar Atomic Power Station (KAPS) in Gujarat?

- (a) It is India's first nuclear reactor to achieve 1000 MW capacity.
- (b) It is India's second indigenous 700 MW nuclear reactor to operate at full capacity.
- (c) It is a foreign-designed nuclear reactor operating in India.
- (d) It is the oldest nuclear reactor still in operation in India.

Q79. Which of the following correctly describe the objectives of the Open Network for Digital Commerce (ONDC)?

1. Inclusivity and access for sellers.
2. Centralization of e-commerce activities.
3. Independence and increased choices for consumers.
4. Profit maximization for the ONDC platform.

Which of the above statements is/are correct?

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

Q80. Why are tensions in the South China Sea particularly concerning for global energy markets?

- (a) The South China Sea is the only source of natural gas for East Asia.
- (b) The South China Sea accounts for the majority of global petroleum production.
- (c) About 40% of the world's petroleum products are transported through the South China Sea.
- (d) The South China Sea is home to the world's largest oil reserves.

Q81. What significant discovery did the Alpha Particle X-ray Spectrometer (APXS) on the Pragyan Rover of the Chandrayaan-3 mission make about the lunar soil in the South Polar Region of the Moon?

- (a) Detection of water molecules in the lunar soil
- (b) First in-situ elemental abundance measurements of lunar soil
- (c) Discovery of new lunar minerals
- (d) Identification of helium-3 in high concentrations

Q82. Consider the following statements regarding the territorial disputes in the South China Sea:

1. The Scarborough Shoal is a disputed territory between China and the Philippines.
2. The Spratly Islands are claimed by multiple countries, including China, Vietnam, and the Philippines.
3. Taiwan does not make any claims in the South China Sea.

How many of the above statements is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

Q83. Which of the following pairs are correctly matched regarding the location of nuclear power plants in India?

1. Kaiga Generating Station – Karnataka
2. Kakrapar Atomic Power Station – Maharashtra
3. Tarapur Atomic Power Station – Uttar Pradesh

Select the correct answer code:

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

Q84. With reference to 'Hayflick limit', consider the following statements

1. It refers to the minimum number of times a cell can divide.
2. The limit plays a crucial role in aging and the development of age-related diseases.

Select the INCORRECT statement(s)

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

Q85. 'Banni Grasslands', recently seen in news is located in

- (a) Rajasthan
- (b) Odisha
- (c) Uttarakhand
- (d) Gujarat

Q86. Consider the following statements with respect to 'Vaccine-derived poliovirus'

Statement 1 – It is a documented variant of poliovirus that originates from the strain used in the oral polio vaccine (OPV).

Statement 2 – The excreted vaccine virus can circulate, undergo genetic changes, and cause paralysis in under-immunized populations

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement II is the correct explanation for Statement-I
- (b) Both Statement-I and Statement-II are correct and Statement II is not the correct explanation for Statement-I
- (c) Statement-I is correct but statement II is incorrect
- (d) Statement -I is incorrect but Statement -II is correct

Q87. Consider the following statements about 'Senior advocates'

1. They are designated under Bar Council of India Act
2. A senior advocate is permitted to appear without an Advocate-on-record or any junior.
3. He/she shall not accept directly from a client any brief or instructions to appear in any Court.

How many statement(s) mentioned above are correct

- (a) Only one
- (b) Only two
- (c) All three
- (d) None of the above

Q88. With reference to 'Third Voice of Global South Summit', consider the following statements

1. India had earlier hosted the inaugural Voice of Global South Summit (VOGSS)
2. The theme of the 3rd Voice of Global South Summit is "Century of the Global South"

Select the INCORRECT statement(s)

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

Q89. Consider the following statements with respect to 'Antihyper Hydrogen-4'

Statement 1 – It is made up of an antiproton, two antineutrons and one antihyperon

Statement 2 – Both hyperhydrogen-4 and its antimatter counterpart antihyper hydrogen-4 seem to wink out of existence very quickly.

Which one of the following is correct in respect for the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement II is the correct explanation for Statement-I
- (b) Both Statement-I and Statement-II are correct and Statement II is not the correct explanation for Statement-I
- (c) Statement-I is correct but statement II is incorrect
- (d) Statement -I is incorrect but Statement -II is correct

Q90. Consider the following statements about 'Atomic clocks'

1. Atomic clocks are the most precise timekeeping devices, critical for applications requiring extreme accuracy
2. These clocks measure time using the resonant frequencies of atoms, such as cesium-133.
3. Cesium atomic clocks are the most accurate clocks and are known for their exceptional precision.

How many statement(s) mentioned above are correct

- (a) Only one
- (b) Only two
- (c) All three
- (d) None of the above

Q91. 'ISDra2TnpB' a term recently seen in news is a/an

- (a) Novel pathogen
- (b) Exoplanet
- (c) Genome editor
- (d) Ransomware

Q92. Consider the following statements with respect to 'Quantum Nonlocality'

Statement 1 – It occurs due to the phenomenon of superposition, whereby particles that interact with each other become permanently correlated.

Statement 2 – It describes the apparent ability of objects to instantaneously know about each other's state, even when separated by large distances.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement II is the correct explanation for Statement-I
- (b) Both Statement-I and Statement-II are correct and Statement II is not the correct explanation for Statement-I
- (c) Statement-I is correct but statement II is incorrect
- (d) Statement -I is incorrect but Statement -II is correct

Q93. Consider the following statements about 'Joint Consultative Machinery'

1. It is a platform for constructive dialogue between the Government as employer and the employees.
2. The scheme is statutory and is mutually agreed upon between the staff side and the official side.
3. The scheme covers all regular civil employees of the Central Government

How many statement(s) mentioned above are correct

- (a) Only one
- (b) Only two
- (c) All three
- (d) None of the above

Q94. Consider the following statements about 'Diamonds'

1. Diamonds form in the Earth's mantle and are brought to the surface through volcanic activity.
2. Botswana is the largest producer of synthetic industrial diamonds

Select the INCORRECT statement(s)

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

Q95. With reference to 'Glacial lakes', consider the following statements

1. It typically forms at the foot of a glacier, but may form on, in, or under it.
2. Most glacial lakes form when a glacier retreats and meltwater fills the hole left behind.

Select the correct statement(s)

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

Q96. In which of the following activities are Indian Remote Sensing (IRS) satellites used?

1. Assessment of crop productivity
2. Locating groundwater resources
3. Mineral exploration
4. Telecommunications
5. Traffic studies

Select the correct answer using the code given below:

- (a) 1, 2 and 3 only
- (b) 4 and 5 only
- (c) 1 and 2 only
- (d) 1, 2, 3, 4 and 5

Q97. With reference to India's satellite launch vehicles, consider the following statements:

1. PSLVs launch the satellites useful for Earth resources monitoring whereas GSLVs are designed mainly to launch communication satellites.
2. Satellites launched by PSLV appear to remain permanently fixed in the same position in the sky, as viewed from a particular location on Earth.
3. GSLV Mk III is a four-staged launch vehicle with the first and third stages using solid rocket motors; and the second and fourth stages using liquid rocket engines.

Which of the statements given above is/are correct?

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

Q98. In which one of the following groups are all four countries members of G20?

- (a) Argentina, Mexico, South Africa and Turkey
- (b) Australia, Canada, Malaysia and New Zealand
- (c) Brazil, Iran, Saudi Arabia and Vietnam
- (d) Indonesia, Japan, Singapore and South Korea

Q99. Consider the following statements:

1. The Mangalyaan launched by ISRO
2. is also called the Mars Orbiter Mission
3. made India the second country to have a spacecraft orbit the Mars after USA

Which of the statements given above is/are correct?

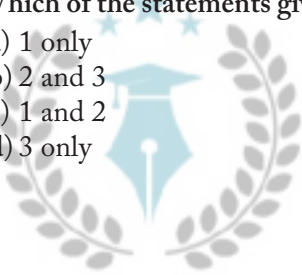
- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q100. What is/are the consequence/consequences of a country becoming the member of the 'Nuclear Suppliers Group'?

1. It will have access to the latest and most efficient nuclear technologies.
2. It automatically becomes a member of "The Treaty on the Non-Proliferation of Nuclear Weapons (NPT)".

Which of the statements given above is/are correct?

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



TRANSFORM IAS
Transforming Lives with Education