

**1. Consider the following statements about air masses and frontogenesis:**

1. Cyclogenesis and frontogenesis are independent processes with no direct relationship.
2. Occluded fronts occur when a cold front overtakes a warm front, leading to the lifting of both air masses.
3. Cold air masses are more effective than warm air masses in the process of frontogenesis.
4. Trowal is a term associated with the occluded front of a mature cyclone.

**Which of the above statements is/are correct?**

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

**2. Consider the following Statement:**

The Reserve Bank of India (RBI) extends Ways and Means Advances (WMAs) to the government to help manage temporary mismatches in its receipts and payments. WMAs serve as a short-term borrowing facility and play a crucial role in ensuring the smooth functioning of the government's financial operations.

**What impact can increased reliance on Ways and Means Advances (WMAs) have on the economy?**

1. Reduced government borrowing from external sources
2. Inflationary pressures due to increased money supply
3. Stabilization of interest rates in the financial market
4. Strengthening of the national currency in the forex market

**How many of the above statements are correct?**

- a) Only one
- b) Only two
- c) Only three
- d) All four

**3. Consider the following statements about diverse forms of governance:**

1. Oligarchy represents governance by a few elite individuals or families, while plutocracy signifies rule by the wealthy elite, where economic power translates into political influence.
2. Kleptocracy involves leaders exploiting power for personal gain, whereas kakistocracy denotes governance by the least qualified or morally bankrupt individuals.

3. Technocracy advocates governance by experts in specialized fields, while gerontocracy refers to rule by the elderly, emphasizing experience-based decision-making.

**How many of the above statements is/are correct?**

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

**4. Concerning the prevailing soil cultivation practices in India, consider the following statements:**

1. In the cultivation of crops like cotton and groundnuts, loamy soils are often preferred due to their balanced texture.
2. The practice of contour ploughing is particularly effective in areas with sandy soils to prevent soil erosion.
3. Black soils, are rich in organic matter and well-suited for the cultivation of cereals.
4. In regions with lateritic soils, adopting water conservation measures becomes crucial to mitigate the impact of water scarcity.

**Which of the statements given above is/are correct?**

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

**5. Match the Judicial Doctrines with their nuanced interpretations:**

Judicial Doctrines:

- A. Proportionality Principle
- B. Margin of Appreciation
- C. Principle of Constitutional Avoidance
- D. Forum Non Conveniens

Nuanced Interpretations:

1. Doctrine allowing courts to decline jurisdiction when another court, not necessarily more convenient, is a more appropriate forum for the case's resolution.
2. A principle employed to interpret constitutions narrowly, avoiding deciding constitutional questions unless absolutely necessary for the case's resolution.
3. A doctrine permitting national authorities a certain degree of discretion in implementing and interpreting human rights obligations.
4. Principle requiring that limitations on rights or freedoms by the government must be proportional and not exceed what is necessary to achieve a legitimate aim.

Match the correct letter of the Judicial Doctrine with the appropriate number of its Nuanced Interpretation

- A-4, B-3, C-2, D-1
- A-1, B-4, C-3, D-2
- A-3, B-2, C-1, D-4
- A-2, B-1, C-4, D-3

6. Consider the following intricate definition of liberty:

"Liberty refers to the state of being free from oppressive restrictions imposed by authority on one's way of life, behavior, or political views. It encompasses the ability to exercise rights, make choices, and participate in societal affairs without undue interference, fostering individual autonomy and self-determination."

Which aspect of liberty does this definition primarily emphasize?

- Libertarianism
- Civil Liberties
- Negative Liberty
- Positive Liberty

7. Consider the following statements in the context of Orangutans:

- Orangutans are great apes native to South Africa.
- The Bornean orangutan is categorised as a critically Endangered species as per IUCN status.
- The Sumatran are categorized as Endangered as per IUCN status.

How many of the above statements is/are incorrect?

- Only one
- Only Two
- All Three
- None

8. The Marine Commandos, also known as MARCOS, has been associated with how many of the following operations?

- Operation Pawan.
  - Operation Cactus.
  - Operation Rakshak.
  - Operation Tasha.
  - Operation Zabardust.
  - Operation Rahat.
  - Operation Black Tornado.
- Only three
  - Only five
  - All seven
  - None

9. Consider the following statements about the recommendations of the 15th Finance Commission of India:

- For horizontal devolution, it has suggested 12.5% weightage to demographic performance.
- The number of states qualifying for the revenue deficit grants increases from 6 in the first year of the award period to 17 in the last year.
- Its recommendations will cover a period of five years from the year 2021-22 to 2025-26.

How many of the above statements is/are correct?

- Only one
- Only two
- All three
- None

10. Situation: During a session in Lok Sabha, Member X persistently disrupts proceedings, repeatedly disregarding the authority of the Chair and obstructing the business of the House. The Speaker finds Member X's conduct grossly disorderly and directs them to withdraw immediately, invoking Rule 373.

Which of the following statements is accurate concerning the subsequent actions under the Lok Sabha's Rules of Procedure?

- The Speaker can directly suspend Member X from the service of the House for a period not exceeding the remainder of the session under Rule 374.
- Rule 374A mandates an automatic suspension for Member X from the service of the House for five consecutive sittings or the remainder of the session, whichever is less, following the Speaker's order to withdraw under Rule 373.
- Member X can contest the Speaker's decision to withdraw and the subsequent suspension in the House through a motion for reconsideration.
- Rule 373 only allows for the immediate withdrawal of Member X from the House and does not entail any subsequent suspension proceedings.

11. Action: The Act under which it is covered

- Posting false information likely to cause fear or alarm to the public::The Information Technology Act, 2000
- Spreading fake news that can lead to communal disharmony:: The Epidemic Diseases Act, 1897

3. Public dissemination of sensitive government information compromising national security:: The Indian Penal Code (IPC)
4. Inciting violence or promoting hatred based on religion, race, caste, or community affiliation:: The Religious Institutions (Prevention of Misuse) Act, 1988

**How many of the above pairs are incorrectly matched?**

- a) Only one
- b) Only two
- c) Only three
- d) All four

**12. Consider the following statements regarding Mitakshara Law School and Dayabhaga Law School in Indian legal history:**

1. Mitakshara Law School primarily follows the concept of joint family property governed by succession through survivorship.
2. Dayabhaga Law School emphasizes individual property rights and succession based on the principle of testamentary succession.
3. Mitakshara Law School prevails mainly in Bengal and Assam regions of India.
4. Dayabhaga Law School is predominant in areas like Maharashtra, Gujarat, and parts of South India.

**Which of the following statements are correct?**

- a) 1 and 2
- b) 2 and 3
- c) 3 and 4
- d) All four

**13. Consider the following:**

1. Short-lived
2. Mobile
3. Soluble in fats
4. Biologically active

**How many of the above characteristics is/are correct about the nature of pollutants to be suitable for biomagnification?**

- a) Only one
- b) Only two
- c) Only three
- d) All four

**14. Consider the following statements in reference to wetlands in India:**

1. The Nekkampur Lake, Hyderabad is the largest floating treatment wetland in the country.
2. Floating treatment wetland works on the basis of aquaponics technique.

3. Bays are the most productive water bodies in the world.

**How many of the above statements is/are correct?**

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

**15. With reference to the UN World Water Development Report 2023, consider the following statements:**

1. It was the first major UN conference on water in over 45 years.
2. Around one-fourth of the world's population does not have access to safe drinking water.
3. It focuses on progress toward water and sanitation-related goals.

**How many statements given above is/are correct?**

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

**16. Consider the following principles of Judicial process:**

1. Principle of natural justice
2. Principle of comity
3. Principle of finality

**How many of the above principles are affected by Forum Shopping?**

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

**17. Consider the following statements in reference to species around the world:**

1. More than 70 per cent of all the species recorded are plants.
2. Among animals, insects make up more than 70 per cent of the total.
3. The number of fungi (e) species in the world is less than all the vertebrate

**Which of the above statements is/are correct?**

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

**18. In the context of Sariska Tiger Reserve, consider the following statements:**

1. Sariska Tiger Reserve is a tiger reserve in Udaipur district, Rajasthan, India.

2. It comprises scrub-thorn arid forests and dry deciduous forests.
3. It is the first reserve in the world with successfully relocated tigers.

**How many of the above statements is/are correct**

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

**19. How many of the following statements is/are correct?**

1. Nagar Van Yojana (NVY) envisages the creation of 400 Nagar Vans and 200 Nagar Vatika in the country during the period 2020-21 to 2024-25.
2. The Nagar Van Yojana aims to enhance the green cover in the urban areas only.
3. The Compensatory Afforestation Fund (CAMPA fund) was established under Forest Rights Act 2006.

**Select the correct answer using the code given below:**

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

**20. Consider the following statements regarding the circumstances surrounding the declaration of the state of emergency in India in 1975:**

1. Indira Gandhi was unseated by the Allahabad High Court due to election malpractices and misuse of government machinery during her 1971 election campaign.
2. The Supreme Court upheld the High Court's decision, suspending Indira Gandhi's privileges as an MP but allowing her to continue as Prime Minister pending her appeal.
3. The state of emergency in India was proclaimed following Jayaprakash Narayan's rally in Delhi, where he urged the police to reject unethical government orders, seen as a potential instigation to rebellion.

**Which of the above statements is/are correct?**

- a) Statement 1 only
- b) Statements 1 and 2
- c) Statements 2 and 3
- d) All three statements

**21. Consider the following statements with reference to Rafah Crossing:**

1. Rafah Crossing serves as the sole land connection between the Gaza Strip and Egypt.
2. The Camp David Accords of 1978 resulted in the establishment of Rafah Crossing.
3. The European Union has played a direct role in the management and monitoring of Rafah Crossing.
4. Rafah Crossing has been a point of contention between Fatah and Hamas, reflecting internal Palestinian political dynamics.

**How many of the above statements are correct?**

- a) Only one
- b) Only two
- c) Only three
- d) All four

**22. Pair the following global cities with the rivers they are situated along:**

Global Cities	Rivers
A. Vienna	1. Danube
B. Melbourne	2. Yarra
C. Lagos	3. St. Lawrence
D. Montreal	4. Niger

**Options:**

- a) A-1, B-2, C-4, D-3
- b) A-3, B-2, C-1, D-4
- c) A-2, B-4, C-1, D-3
- d) A-1, B-3, C-4, D-2

**23. What is a defining feature of Zero Coupon Zero Principal Instruments (ZCZPIs)?**

- a) They offer high periodic interest payments.
- b) They are issued at face value.
- c) They do not make periodic interest payments.
- d) They mature at a discount to their face value.

**24. The "Paat-Mitro" mobile application recently gained attention due to its association with:**

- a) Weather forecasting services
- b) Digital marketing for agricultural products
- c) Jute cultivation information and MSP details
- d) Livestock healthcare updates

**25. Who was awarded the Royal Society of Chemistry's Nyholm Prize for Education?**

- a) Professor Savita Ladage
- b) Dr Helen Pain
- c) Dr. Carolyn Bertozzi
- d) Professor John B. Goodenough

**26. Consider the following statements in the context of the Bahmani Sultans:**

1. They respected diverse religious practices.
2. They were known for promoting Persian culture and language.
3. They were engaged in maritime trade and established trading links with various foreign powers.
4. They were eventually succeeded by the Deccan Sultanates.

**How many of the above statements are correct?**

- a) Only one
- b) Only two
- c) Only three
- d) All four

**27. Consider the following statements in the context of mangroves:**

1. As per the definition by the Food and Agriculture Organization (FAO), Mangroves are trees and bushes growing below the highwater level of spring tides.
2. Rhizophora is a mangrove which sends vertical "Pneumatophores" or air roots up from the mud.
3. Mangroves exhibit a viviparity mode of reproduction.

**Which of the above statements is/are correct?**

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

**28. Consider the following passage:**

She was instrumental in opening schools for girls and advocating education for women from marginalized communities like the Mang and Mahar. She challenged social evils like widowhood, campaigned against the inhumane practice of shaving widows' heads, advocated for widow remarriage, and provided shelter for unwed mothers and widows at risk of infanticide. Her contributions to literature with works like 'Kavyaphule' and 'Bavankashi Subodh Ratnakar' furthered her legacy.

**Who among the following is being described in the above-given passage?**

- a) Pandita Ramabai
- b) Muthulakshmi Reddi
- c) Savitribai Phule
- d) Sulabha Deshpande

**29. Recently the IIT Madras researchers developed 'Aerogels'. Consider the following statements in the context of 'Aerogels':**

1. Aerogels are highly porous materials derived from a gel, with the liquid component replaced by gas.
2. They are composed of interconnected nanoparticles or polymers, common materials include silica, carbon, metal oxides, and polymers.
3. They have Low density, high porosity, thermal insulation, and acoustic insulation properties that make aerogels versatile.
4. They are used in insulation, environmental remediation, electronics, and aerospace.

**How many of the above statements are correct?**

- a) Only one
- b) Only two
- c) Only three
- d) All four

**30. Consider the following statements about the Article 99 of the UN Charter:**

1. It is the only independent political tool given to the secretary-general in the UN Charter.
2. The provision has never been invoked.

**Which of the above statements is/are incorrect?**

- a) 1 only
- b) 2 only
- c) both 1 and 2
- d) neither 1 nor 2

**31. 'Garba of Gujarat' has recently become the 15th Intangible Cultural Heritage (ICH) element from India to join the UNESCO list, signifying its cultural significance and role in fostering social inclusivity. How many of the following traditions and rituals are in the list?**

1. Ramlila
2. Tradition of Vedic chanting
3. Kutiyattam
4. Rammam
5. Mudi yettu
6. Kalbelia folk songs
7. Traditions of Nawruz

**Options**

- a) Only three
- b) Only five
- c) All seven
- d) None

**32. Consider the following statements in the context of the Myristica Swamps:**

1. They are a type of salt water swamp forest predominantly composed of species of Myristica.



2. They are called live fossils, a biodiversity hotspot dominated by evergreen trees belonging to the Myristicaceae family.
3. They have adapted to inundation by way of stilt roots and knee roots.
4. They are found in Odisha and the eastern parts of India.

**How many of the above statements are correct?**

- a) Only one
- b) Only two
- c) Only three
- d) All four

**33. Consider the following statements in the context of the World Energy Employment 2023 report:**

1. It is released by the World Bank.
2. The global energy sector showed a net increase in employment.
3. India is experiencing job growth in both clean energy and fossil fuel sectors.
4. India ranked fourth globally in terms of new clean energy jobs created in the past three years.

**How many of the above statements are correct?**

- a) Only one
- b) Only two
- c) Only three
- d) All four

**34. Consider the following statements regarding glaciers in India:**

1. Siachen Glacier, located in the eastern Karakoram Range, is the smallest glacier in India.
2. Gangotri Glacier, a primary source of the Ganges River, is situated in the state of Himachal Pradesh.
3. The glacier known as Pindari is located in the Zaskar Range of the Himalayas.
4. Drang Drung Glacier, an important glacier in the Indian state of Jammu and Kashmir, is a source for the Chenab River.

**Select the correct answer using the codes given below:**

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

**35. The Colombo Security Conclave (CSC) includes how many of the following countries?**

1. India
2. Sri Lanka
3. Maldives

4. Mauritius
5. Bangladesh
6. Seychelles

Select the correct code:

- a) Only three
- b) Only four
- c) Only five
- d) All six

**36. What is Barracuda, recently making headlines in the news?**

- a) A new species of deep-sea fish discovered in the Pacific Ocean.
- b) A cutting-edge military submarine designed for stealth operations.
- c) The fastest solar-electric boat in India, developed by IIT Madras students.
- d) A state-of-the-art artificial intelligence system for cybersecurity.

**37. Consider the following statements:**

Statement 1: The Black Swan Theory implies that traditional risk management strategies should focus on identifying and preparing for unpredictable events.

Statement 2: According to the theory, the impact of Black Swan events can be minimized through robustness and flexibility in systems and institutions.

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

- a) Both Statement-1 and Statement-2 are correct, and Statement-2 is the correct explanation for Statement-1
- b) Both Statement-1 and Statement-2 are correct, and Statement-2 is not the correct explanation for Statement-1
- c) Statement-1 is correct, but Statement-2 is incorrect
- d) Statement-1 is incorrect, but Statement-2 is correct

**38. Consider the following statements:**

1. The game of Snakes and Ladders, originally known as 'Mokshapat,' was created by the 13th-century poet-saint Gyandey.
2. Chess, which originated in Maharashtra, was originally played on chariots called 'raths' and was known as RATHERA.
3. The ancient Indian game called Kridapatram, meaning 'painted rags for playing,' is a precursor to the modern card game known as Suits.

**Which of the statements is/are correct?**

- a) Only Statement 1
- b) Only Statement 2

- c) Statements 1 and 3  
d) All of the above

**39. Which of the following statements about the Guntupalli Group of Buddhist Monuments is correct?**

- The main building above ground is made entirely of stone.
- The chaitya hall has a carved stone entrance inspired by the Lomas Rishi Cave.
- The remains of two viharas at the site are entirely in stone.
- The relics found during excavation date back to the 2nd century BCE.

**Choose the correct option:**

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

**40. Consider the following pairs:**

Place of Pilgrimage | Rivers

- Amarnath Cave Temple | Jhelum
- Gangotri Temple | Bhagirathi
- Kanchipuram Ekambareswarar Temple | Palar

**Select the correctly matched pairs using the codes given below:**

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

**41. Which of the following historical texts mentions the Pandrethan Temple?**

- a) Mahabharata  
b) Rajatarangini  
c) Ramayana  
d) Arthashastra

**42. Match the following types of taxes with their nature:**

List - I (Tax Names) | List - II (Nature of Taxes)

- |               |  |
|---------------|--|
| 1. Chorarajju | A. Forced labour                           |
| 2. Pranaya    | B. Tax collected for the search of a thief |
| 3. Pindakaras | C. Tax collected from entire village       |
| 4. Vishti     | D. Emergency Tax                           |

**Select the correct answer using the codes given below:**

- a) 1-A, 2-B, 3-C, 4-D  
b) 1-B, 2-C, 3-D, 4-A  
c) 1-B, 2-D, 3-C, 4-A  
d) 1-D, 2-A, 3-B, 4-C

**43. Where was the Ashokan Pillar with a complete set of seven edicts found?**

- a) Delhi-Topra  
b) Ram-Purva  
c) Allahabad-Kosam  
d) Lauriya-Areraj

**44. In a remote tribal region, a Gram Sabha, comprising all village inhabitants, initiated a process to ascertain land rights under the Forest Rights Act. During the deliberation, it was found that a particular family had been cultivating a piece of forest land for over three generations, covering nearly 5 hectares, well beyond the allowed limit. The Gram Sabha recommended this land for the family's ownership rights.**

Which of the following statements concerning the Forest Rights Act is correct based on the scenario?

- The Gram Sabha's decision is final and conclusive in granting land rights to the family, regardless of the area's size.
- The family, despite cultivating the land for generations, might face the risk of being denied ownership rights as it exceeds the maximum limit of 4 hectares for ownership under the Act.
- The Forest Rights Act has no stipulations regarding the maximum land limit, thereby allowing families to claim ownership regardless of the area's size.

**Select the correct answer using the code below:**

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

**45. Consider the following statements about the Bengal Judicature Act 1781:**

- Public servants of the company were not to be subject to the jurisdiction of the Supreme Court for things done by them in their official capacity.
- Only the Supreme Court had the jurisdiction in any matter regarding revenue and its collection.
- Supreme Court was to have jurisdiction over all the residents of Calcutta.

**Which of the following options is correct?**

- a) Only Statement 1 is true.  
b) Statements 1 and 3 are true.  
c) Statements 2 and 3 are true.  
d) All of the above statements are true.

**46. How many of the following newspapers/generals were in Bengali?**

1. Samachar Darpan
2. Sambad Kaumudi
3. Mirat-ul-Akhbar
4. Indian Mirror
5. Sambad Parvakar

Select the correct code:

- a) Only 1
- b) Only 3
- c) All five
- d) None

47. Arrange the following Treaties chronologically:

1. Treaty of Gandamak
2. Treaty of Yandabo
3. Treaty of Sugauli
4. Treaty of Lahore

Options:

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

48. During the reign of Krishna Deva Raya, how many of the following foreign travelers were not Portuguese?

1. Nicolo Conti
2. Abdur Razzaq
3. Domingo Paes
4. Fernao Nuniz

Select the correct answer using the codes below:

- a) Only one
- b) Only two
- c) Only three
- d) All four

49. Match the emblems with the respective dynasties:

1. Chola
2. Pandya
3. Chera

Emblems:

- A. Bow and Arrow
- B. Fish
- C. Tiger

Options:

- a) 1-B, 2-C, 3-A
- b) 1-C, 2-B, 3-A
- c) 1-A, 2-B, 3-C
- d) 1-B, 2-A, 3-C

50. Consider the statements about Kohinoor diamond:

1. Koh-i-Noor diamond was acquired by the British as part of the Treaty of Lahore after the first Anglo-Sikh war.

2. The diamond's first verifiable record comes from the 1740s when Nader Shah looted it from the Mughal Peacock Throne in Delhi.
3. It changed hands in south and west Asia until given to Queen Victoria in 1849.

Which of the following options is correct?

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

51. How many of the following were the founders of All India Women's Conference (AIWC), 1927?

1. Rani Sahiba of Sangli
2. Sarojini Naidu
3. Kamla Devi Chattopadhyaya
4. Lady Dorab Tata

Options:

- a) Only one
- b) Only two
- c) Only three
- d) All four

52. Arrange the following deserts in the order of their decreasing size:

1. Sahara Desert
2. Gobi Desert
3. Kalahari Desert
4. Great Victoria Desert

Select the correct answer using the code given below:

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

53. Consider the following statements in the context of the Hydrocarbon Exploration and Licensing Policy (HELP):

1. It allows companies to select blocks for exploration based on available data and their strategic preferences.
2. The revenue-sharing model under HELP involves the government receiving a share of revenue from successful production instead of profit-sharing.
3. The marketing and pricing freedom under HELP allows contractors to sell crude oil through transparent bidding in the domestic market.
4. HELP provides a single license for all forms of hydrocarbon exploration and production.

How many of the above statements are correct?

- a) Only one
- b) Only two



- c) Only three
- d) All four

**54. Consider the following Statement:**

Country X is experiencing a downturn in its economy due to a significant decrease in export revenues, high unemployment rates, and inflationary pressures. The government has implemented various policies to address these challenges, including fiscal measures and monetary interventions.

What factor(s) might have contributed to the decrease in export revenues in Country X?

1. Increase in foreign demand and stable currency rates
2. Tariff reductions and trade agreements with neighbouring countries
3. Global economic slowdown and unfavourable exchange rates
4. Surge in domestic production and consumption

How many of the above statements are correct?

- a) Only one
- b) Only two
- c) Only three
- d) All four

**55. Which of the following statements regarding the legislative actions on the prohibition of child marriage in India is correct?**

1. The Native Marriage Act of 1872, popularly known as the Civil Marriage Act, prohibited the marriage of girls below the age of 16 and boys below 18.
2. The Age of Consent Act of 1891, driven by the efforts of Parsi reformer BM Malabari, forbade the marriage of girls below the age of 12.
3. The Sharda Act of 1929 increased the marriage age, forbidding marriages of boys below 21 and girls less than 16 years of age.
4. The Child Marriage Restrain (Amendment) Act, 1978, raised the age of marriage for girls to 18 years and for boys to 21.

Select the correct code:

- a) Only 1 and 2
- b) Only 2 and 4
- c) Only 3 and 4
- d) All of the above

**56. Match the following leaders of the Jat community with their respective roles and periods:**

1. Gokla
2. Rajarama

3. Churaman
4. Badan Singh
5. Suraj Mal

Roles and Periods:

- A. Zamindar of Tilpat, led Jat uprisings in AD 1669.
- B. Zamindar of Sinsani, led Jat uprisings in AD 1685.
- C. Obtained Mansab from Bahadur Shah I, established the State of Bharatpur.
- D. Nephew of Churaman, given the title of Raja by Ahmed Shah Abdali.
- E. Adopted son and successor of Badan Singh, successfully welded scattered Jat Zamindars into one powerful state.

Select the correct matching using the options below:

- a) 1-A, 2-B, 3-C, 4-D, 5-E
- b) 1-B, 2-A, 3-C, 4-D, 5-E
- c) 1-A, 2-B, 3-D, 4-C, 5-E
- d) 1-B, 2-A, 3-D, 4-C, 5-E

**57. How many of the following statements are correct regarding Neglected Tropical Diseases (NTDs) in India and their associated microbial sources of infection?**

1. Lymphatic filariasis is primarily caused by the parasitic roundworm *Wuchereria bancrofti*.
2. Soil-transmitted helminthiases are often caused by parasitic worms such as *Ascaris lumbricoides*, *Trichuris trichiura*, and hookworms.
3. Leptospirosis is caused by pathogenic *Leptospira* bacteria.
4. Buruli ulcer is caused by *Mycobacterium ulcerans*.

Options:

- a) None of the statements are correct.
- b) Only 1
- c) Only 2
- d) All four

**58. Which of the following statements accurately describes RNA interference (RNAi) technology?**

- a) RNA interference involves the process of activating specific genes in target cells to enhance their functional capabilities.
- b) RNA interference is a technique used to induce mutations in specific genes, leading to altered protein production and cellular functions.
- c) RNA interference is a mechanism that suppresses gene expression by using small

RNA molecules to degrade or inhibit target mRNA sequences.

- d) RNA interference facilitates the direct transfer of genetic material between different species to enhance the genetic diversity of the recipient organism.

**59. Match the following hydropower projects with their respective rivers:**

Hydropower Projects:

1. Baglihar Dam
2. Hirakud Dam
3. Koyna Dam
4. Nathpa Jhakri Dam

Rivers:

- A. Mahanadi
- B. Chenab
- C. Koyna
- D. Satluj

Select the correct answer using the code given below:

- a) 1-C, 2-D, 3-A, 4-B
- b) 1-A, 2-C, 3-D, 4-B
- c) 1-B, 2-A, 3-C, 4-D
- d) 1-D, 2-C, 3-A, 4-B

**60. Which of the following statements accurately represent the capabilities of the latest cybersecurity technologies?**

1. Advanced behavioral analytics and artificial intelligence (AI) are utilized to detect and mitigate sophisticated cyber threats, including zero-day attacks and polymorphic malware.
2. Secure and privacy-preserving computation protocols, such as homomorphic encryption and secure multi-party computation (MPC), enable secure data processing and analysis without exposing sensitive information to unauthorized parties.
3. Quantum-resistant cryptographic algorithms are implemented to ensure the long-term security of sensitive data, protecting it from potential security risks posed by quantum computing advancements.

Options:

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

**61. Which of the following devices commonly found in modern households operate within the terahertz frequency range of the electromagnetic spectrum?**

1. Terrestrial television receivers

2. Bluetooth-enabled devices
3. PIR Sensor
4. Microwave ovens with advanced sensor technology

Select the correct code:

- a) 1 and 2
- b) 2 and 3
- c) 3 and 4
- d) None

**62. Consider the following statements regarding open-source and closed-source applications:**

1. Open-source applications allow users to view, modify, and distribute the source code freely, encouraging collaboration and transparency in software development.
2. Closed-source applications typically have restricted access to their source code, limiting the ability of users to customize or understand the inner workings of the software.
3. Open-source applications often benefit from the contributions of a large community of developers, leading to continuous improvements, updates, and bug fixes.
4. Closed-source applications offer more control over the software's development and distribution, ensuring better security and intellectual property protection.

Which of the statements given above are incorrect

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

**63. Recent advances in astrophysics have led to the discovery of several celestial phenomena. Which of the following events can be caused by the collision of two neutron stars?**

1. Gravitational waves being generated, causing ripples in space-time.
2. Formation of heavy elements like gold and platinum due to the extreme pressure and temperatures.
3. Release of high-energy gamma-ray bursts that can be detected by specialized telescopes.
4. Creation of a wormhole that connects two distant points in the universe, enabling faster-than-light travel.

Select the correct answer using the code below:

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

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

64. In the recent elections, Party A received 5% of the total valid votes in four different states but did not secure any seats in those states' legislative assemblies. Simultaneously, in the Lok Sabha elections, it obtained 6% of the total valid votes in three states and won a single Lok Sabha seat in each of these states.

Which of the following conclusions can be drawn based on the criteria for declaring a national or state party according to the Election Commission of India's guidelines?

**Options:**

- a) Party A qualifies as a national party but not as a state party in any of these states.  
b) Party A doesn't meet the criteria for either a national or a state party in any of these states.  
c) Party A qualifies as a state party but not as a national party.  
d) Party A meets the criteria for both a national and a state party in the aforementioned states.

65. Arrange the following materials in increasing order of their Emissivity.

1. Graphite
2. Anodised Aluminium
3. Highly polished Brass
4. Stainless Steel

**Select the correct code:**

- a) 2>1>4>3  
b) 3>4>2>1  
c) 4>2>3>1  
d) 3>2>1>4

66. With reference to Quantum Dot Display Technology, consider the following statements.

1. A Quantum Dot is a human-made nanoparticle that has semiconductor properties.
2. Quantum dots naturally produce monochromatic light.
3. Quantum dots only require a small amount of energy to work, and this can be achieved by a single blue light.
4. LED-backlit LCDs are the main application of photo-emissive quantum dots.

**How many of the above statements is/are correct**

- a) Only 1  
b) Only 2  
c) Only 3

- d) All four

67. Which of the following are the limitations of Bioinformatics Databases?

1. Contamination of Gene Sequences with sequences from cloning vectors.
2. Incomplete annotations of genes.
3. Inability to use Proteomics as a type of biological data in bioinformatics.
4. High levels of redundancy in the primary sequence databases.

**Select the correct code:**

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

68. The La Pérouse Strait is a narrow passage connecting two important bodies of water. Identify the correct pairing of the regions it connects:

- a) Black Sea and Mediterranean Sea  
b) Red Sea and Arabian Sea  
c) Sea of Japan and Sea of Okhotsk  
d) Gulf of California and Pacific Ocean

69. Consider the following statements:

1. At Lagrange points, the gravitational pull of two large masses precisely equals the centripetal force required for a small object to move with them.
2. Lagrange 3 point remains hidden behind the Sun at all times.
3. The Lagrange 1 point affords an uninterrupted view of the sun and is currently home to the Solar and Heliospheric Observatory Satellite SOHO.
4. Objects at Lagrange 2 enjoy a constant view of the night sky and are used for solar and Earth observations.

**How many of the above statements is/are correct?**

- a) Only 1  
b) Only 2  
c) All 4  
d) None

70. In how many of the following government bodies can the state emblem be displayed?

1. Indian consulates abroad
2. Public Sector Undertaking
3. Municipal Council
4. State University

**Select the correct code:**

- a) Only one  
b) Only two  
c) Only three

d) All four

71. Foreign visits by members of the State governments in their official capacity would require clearances from how many of the following?

1. Ministry of External Affairs
2. Ministry of Home Affairs
3. Finance Ministry
4. Central Administrative Ministry.

Select the correct answer using the code given below:

- a) Only one
- b) Only two
- c) Only three
- d) All four

72. What is the correct sequence of occurrence of the following mountain ranges in North America as one proceeds from west to east?

1. Rocky Mountains
2. Mackenzie Mountains
3. Appalachian Mountains
4. Cascade Range

Select the correct answer using the code given below.

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

73. Consider the following Statement:

Sarah runs a small bakery called "Sweet Delights." She faces various economic decisions daily to ensure profitability and sustainability. Sarah's bakery experienced a sudden increase in the price of flour due to a global shortage caused by adverse weather conditions. As a result, the cost of producing her baked goods rises significantly.

What concept best describes the situation Sarah faces due to the increased flour prices?

- a) Demand elasticity
- b) Supply elasticity
- c) Opportunity cost
- d) Production possibility frontier

74. Consider the following Statement:

The government of a country implements a fiscal policy aimed at boosting economic growth. It plans to increase public spending on infrastructure projects by taking loans from international financial institutions. This policy aims to stimulate economic activity, create jobs, and enhance the country's productive capacity.

What potential impact might the government's policy have on private investment?

- a) Increase due to higher public spending
- b) Decrease due to increased interest rates
- c) Unaffected by government policy
- d) No impact on overall investment

75. Baku will host the next COP29. Which historical event significantly impacted Baku's development in the late 19th and early 20th centuries?

- a) The discovery of gold mines
- b) The Silk Road trade route
- c) The establishment of the first modern oil well
- d) The construction of the Trans-Siberian Railway

76. Consider the following statements in reference to the Grandmaster title in chess:

1. 3 Grandmaster norms and a FIDE rating 2500+ qualify one for a Grandmaster.
2. A Grandmaster norm is achieved with a 2600-rated performance in a tournament with at least 9 rounds, where at least 50 percent are titled players.

Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) both 1 and 2
- d) neither 1 nor 2

77. What is the significance of the term "Farlowichnus rapidus" in recent news?

- a) It represents a new species of flowering plant discovered in South America.
- b) It denotes a small carnivorous dinosaur discovered in Brazil.
- c) It refers to a newly identified ancient human ancestor found in Africa.
- d) It signifies a breakthrough in space exploration technology.

78. Consider the following statements in the context of the Onattukara sesame:

1. Onattukara sesame is a variety of sesame seeds native to the Onattukara region of Kerala.
2. It has a higher oil content than other varieties of sesame, making it ideal for oil production.
3. It is known for its high quality and unique aroma and is used in a variety of Ayurvedic medicines and culinary dishes.
4. It is also a good source of vitamins and minerals, including vitamin E, calcium, and magnesium.

How many of the above statements are correct?

- a) Only one
- b) Only two
- c) Only three
- d) All four

79. Consider the following statements regarding the Olympic Games:

1. The modern Olympic Games were inspired by the ancient Olympic Games held in Athens, Greece.
2. The Olympic flame is lit using sunlight in a parabolic mirror at the Temple of Hera in Olympia, Greece, during the Olympic Torch Relay.
3. The International Olympic Committee (IOC) was founded by Pierre de Coubertin, who also served as the first President.
4. The first modern Olympic Games took place in Paris in 1896.

Select the correct answer using the code given below:

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

80. What do you understand by the term "Silver Tsunami"?

1. A surge in the stock market prices caused by increased investment in silver.
2. A demographic phenomenon characterized by a significant increase in the proportion of elderly individuals in a population.
3. A natural disaster involving the flooding of coastal areas due to melting polar ice.
4. An economic recession marked by a decline in the production of silver goods.

Choose the correct option:

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

81. How many of the following were the Narasimham Committee's recommendations for Financial Sector Reforms?

1. A three-tier banking structure
2. Promoted consolidation of weak banks
3. Strengthened capital adequacy requirements
4. Introduced risk-based supervision
5. Greater autonomy for banks in setting lending rates
6. Development of money markets and capital markets
7. Greater role for foreign banks

Select the correct answer using the code given below:

- a) Only four
- b) Only five
- c) Only six
- d) All seven

82. Consider the following statements regarding the iron and steel industry in India:

1. The Western states of Rajasthan and Gujarat, play a pivotal role in the iron and steel industry due to their rich deposits of iron ore and coal.
2. Maharashtra and Gujarat, have witnessed significant growth in the iron and steel sector, leveraging their strategic access to ports and markets.
3. Karnataka and Andhra Pradesh have emerged as leading producers of finished steel products rather than primary steel manufacturing.
4. Jammu and Kashmir contribute minimally to the iron and steel industry, primarily due to logistical challenges and limited access to essential raw materials.

Which of the statements is/are incorrect?

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

83. Consider the following statements in the context of the Himalayan Black Bear:

1. They are considered an ecological indicator and a keystone species of the environment.
2. They are typically nocturnal and elusive.
3. They only exist in Asia, mainly confined to the Himalayas of India, Bhutan, Nepal, China, and Pakistan.
4. They are listed as 'vulnerable' by the International Union for Conservation of Nature (IUCN).
5. They prefer moist temperate forests mixed with deciduous broad-leaved forests.

How many of the above statements are correct?

- a) Only two
- b) Only three
- c) Only four
- d) All five

84. Consider the following natural phenomena:

1. Obliquity of the Earth's axis
2. Milankovitch cycles
3. Eustatic sea level changes
4. Isostatic rebound



5. Thermohaline circulation  
**Which of the above factors play a role in influencing long-term geological processes and shaping the Earth's surface?**

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

85. **The question of how to best redistribute income in a country is a complex one, with no single, universally agreed-upon answer. Different methods have their advantages and disadvantages, and the optimal approach depends on a variety of factors, including the specific context of the country, its political and economic system, and its cultural values. Which of the following are the most common methods for income redistribution:**

- 1. Regressive Taxation
- 2. Social Welfare Programs
- 3. Education and Training
- 4. Minimum Wage
- 5. Land Reform
- 6. Corporate Social Responsibility

**How many of the above is/are correct?**

- a) Only three
- b) Only four
- c) Only five
- d) All six

86. **Consider the following statements in the context of the Wholesale Price Index (WPI):**

- 1. Currently, the WPI is based on the year 2011-12 (base year).
- 2. The WPI basket has three broad components – primary articles, fuel and power, and manufactured products having the biggest share of more than 60%.
- 3. The WPI is calculated using a Laspeyres formula, which takes the base year quantities of each good and applies current prices to them.
- 4. The WPI is released by the Office of the Economic Adviser (OEA) in the Ministry of Commerce and Industry, usually on the 14th of every month.

**How many of the above statements are correct?**

- a) Only one
- b) Only two
- c) Only three
- d) All four

87. **In the context of the Regional Rural Banks, consider the following statements:**

- 1. RRBs were established under the Regional Rural Banks Act of 1976, following the recommendations of the Narasimham Committee.
- 2. They are regulated by the Reserve Bank of India (RBI) and supervised by the National Bank for Agriculture and Rural Development (NABARD).
- 3. The ownership and capital structure of RRBs are shared by three entities: the Central Government holds 50% of the share capital, while the State Government and the sponsor bank hold 15% and 35% respectively.
- 4. The mandatory target for priority sector lending by RRBs is currently set at 75%.

**How many of the above statements are correct?**

- a) Only one
- b) Only two
- c) Only three
- d) All four

88. **Consider the following statements:**

**Statement 1:** The nominal effective exchange rate (NEER) is computed by considering the trading partners' exchange rates, weighted based on trade volume.

**Statement 2:** NEER provides insights into a country's import competitiveness but not its export competitiveness.

**Which one of the following is correct with respect to the above statements?**

- a) Both Statement-1 and Statement-2 are correct, and Statement-2 is the correct explanation for Statement-1.
- b) Both Statement-1 and Statement-2 are correct, and Statement-2 is not the correct explanation for Statement-1.
- c) Statement-1 is correct, but Statement-2 is incorrect.
- d) Statement-1 is incorrect, but Statement-2 is correct.

89. **Consider the following statements in the context of the Pre-paid Payment Instruments (PPIs):**

- 1. PPIs are solely issued by banks in India and are not offered by non-banking entities.
- 2. They are categorized into three types: Open, Semi-Open, and Closed.
- 3. They require mandatory linkage with an individual's bank account.
- 4. They are primarily used for online transactions and cannot be used for offline purchases.
- 5. They offer interest rates on the loaded amount similar to savings bank accounts.

How many of the above statements are incorrect?

- a) Only two
- b) Only three
- c) Only four
- d) All five

90. Recently, the term Digital Sequence Information, or "DSI" was in the news.

What does it imply?

- 1. Parallel Sequencing in Forensics
- 2. Genomic Sequence Data
- 3. Nanopore sequencing
- 4. Pyrosequencing

Select the correct answer using the codes given below:

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

91. In a specific region of India, a rare phenomenon known as 'mud volcanoes' can be observed. These geological features release a mixture of gases, liquids, and sediments, creating a landscape that resembles miniature volcanoes. The occurrence of these mud volcanoes is associated with the presence of hydrocarbon reserves beneath the Earth's surface.

In which of the following locations can one witness this unique geological event?

- a) Baratang Island
- b) Gulf of Kachchh
- c) Pulicat Lake
- d) Agatti Island

92. Consider the following statements.

- 1. Flax cultivation is well-suited to temperate climates.
- 2. Jatropha Tree is commonly cultivated as a source of biofuel.
- 3. Jatropha seeds contain toxic compounds, including phorbol esters.
- 4. Bagasse typically has a high moisture content, making it a less efficient fuel for combustion compared to drier biomass materials.

How many of the above statements are correct?

- a) Only one
- b) Only two
- c) Only three
- d) all

93. Which of the following are the features of MIMO - (Multiple Input, Multiple Output) Technology?

- 1. A data packet can be transmitted at different time slots.
- 2. Single frequency channel is used for better transmission.
- 3. Use of multipath phenomenon to maximize transmission.
- 4. Utilization of different positions of antennas on a router to leverage various signal paths.

How many of the above statements are correct?

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

94. Which of the following is/are a type of Lightning?

- 1. Sprites
- 2. Elves
- 3. Fallstreak holes
- 4. Virga

Select the correct answer using the codes given below:

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

95. Consider the following diseases

- 1. Plague
- 2. Small pox
- 3. River Blindness

Which of the above diseases has/have been eradicated in India?

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

96. Consider the following statements.

- 1. Nickel-metal hydride batteries have a longer life-cycle than lithium-ion or lead-acid batteries.
- 2. Lithium-ion batteries have a low power-to-weight ratio, high energy efficiency and good high-temperature performance.
- 3. Lead-acid batteries are a kind of dry cell battery and contain a mild solution of Hydrochloric Acid in the form of paste.

How many of the above statements is/are incorrect?

- a) Only 1
- b) Only 2
- c) Only 3
- d) all

97. Consider the following statements:

1. Polyester was the first commercially successful man-made fibre.
2. Acrylic is derived from natural sources such as soybeans and corn.
3. Spandex is a natural fibre obtained from the latex of rubber trees.
4. Nomex is commonly used in the manufacturing of disposable medical gowns due to its low cost and high durability.

**How many of the above statements are incorrect?**

- a) Only one
- b) Only two
- c) Only three
- d) All four

**98. Which of the following pesticides are not banned in India?**

1. Captafol
2. Endosulfan
3. Methyl Bromide
4. Dazomet

**Select the correct answer using the code given below:**

- a) 1 only
- b) 2 and 3
- c) 1, 3 and 4
- d) none

**99. Hugelkultur is an innovative agricultural practice that has gained attention in the recent times. Which of the following statements about Hugelkultur is correct?**

1. Hugelkultur involves growing crops in containers without disturbing the soil.

2. Hugelkultur relies on the cultivation of miniature trees or plants for ornamental purposes.
3. Hugelkultur creates raised beds filled with decaying wood and organic matter to improve soil fertility.
4. Hugelkultur is a form of precision agriculture using advanced technology for monitoring and management.

**Choose the correct option:**

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

**100. Consider the following statements regarding Solid State Drives (SSDs):**

1. SSDs use NAND-based flash memory to store data, which is a type of non-volatile memory that retains information even when power is removed.
2. The performance of SSDs is generally unaffected by their capacity; larger capacity SSDs have the same read and write speeds as smaller capacity ones.
3. SSDs have a limited number of write cycles compared to traditional Hard Disk Drives (HDDs), which can impact their lifespan and durability.

**How many of the statements given above is/are incorrect?**

- a) Only 1
- b) Only 2
- c) All three
- d) None