

1-Consider the following statements regarding Prehistoric painting.

1. There are evidences of Lower Paleolithic people producing art.
2. Symbols do not form part of Prehistoric paintings.
3. Hunting scenes predominate in Mesolithic paintings.

Which of the above statements is/are correct?

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

2. Consider the following statements regarding Satavahanas.

1. They patronized Buddhism and Brahmanism.
2. They patronized the Prakrit language and literature.
3. They performed asvamedha and rajasuya sacrifices.

Which of the above statements is/are correct?

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

3. Consider the following statements regarding Gupta Art and Architecture.

1. Both the Nagara and Dravidian styles of art evolved during this period.
2. Metallurgy had made a wonderful progress during the Gupta period.
3. It had extensive influence of Gandhara style.

Which of the above statements is/are correct?

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

4. Consider the following statements regarding Gupta Age.

1. Gupta age is often hailed as the “Golden period of Indian Architecture” which showed exemplary tolerance for all religions.
2. During the Gupta period, architectural development of the caves was enhanced.
3. The figures in the caves were done using fresco painting.
4. Buddhist and Jain art lost its importance during this time.

Which of the above statements is/are correct?

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

5. Which of the following are considered as Triratnas according to Jainism?

1. Right Knowledge
2. Right Culture
3. Right Conduct
4. Right Faith

Select the correct answer code:

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

6-The oldest-known art in India, also known as Bhima’s Lounge (Bhima – Pandava prince from the Mahabharata), is found in

- a) Ajanta caves
- b) Karla caves
- c) Bhimbetka caves
- d) Ellora caves

7. Consider the following statements regarding Jorwe culture.

1. The Jorwe culture is dated around 1400 to 700 BC and covered in present day Maharashtra.
2. The Jorwe culture was mainly urban.

Which of the above statements is/are correct?

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

8. Bhimbetka caves shows the continuity of human evolution from the Lower Palaeolithic Period to the Mesolithic period to the chalcolithic period. This can be noticed through

1. There are a large number of Shanka Lipi inscriptions in the Bhimbetka cluster of rock shelters.
2. It contains evidence of the use of tools and implements from all these periods.

Select the correct answer code:

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

9. Which of the following are the features of the Chalcolithic period?

1. Painted pottery was practiced during this period.
2. People started using iron, but did not know of copper and bronze metals.
3. A new technology for smelting metal ore was developed.

Select the correct answer code:

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

10. Consider the following statements.

1. During the Neolithic phase, the cultivation of plants and domestication of animals led to the emergence of village communities based on sedentary life.

2. The people of Neolithic Age used clothes made of cotton and wool.

Which of the above statements is/are incorrect?

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

11. Which of the following adds/add nitrogen to the soil?

- 1. Burning of coal by man
- 2. Death of vegetation
- 3. Excretion of urea by animals

Select the correct answer code.

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

12. Which of these ecosystems would sequester most carbon for a given unit of area?

- a) Mature tropical forests
- b) Saltmarsh
- c) Grassland
- d) Bare soil

13. Carbon Capture Utilization Storage (CCUS) is the process of

- a) Generating carbon certificates from carbon-intensive activities and issuing them based on the carbon footprint associated with each such activity
- b) Redistributing captured carbon from storage in the atmosphere to mitigate de-calcification in marine sources
- c) Capturing waste carbon dioxide from large point sources and reusing it
- d) Destroying atmospheric CO₂ by way of electrostatic precipitators and storing the residue in specialized storages

14. Ocean acts as a large carbon sink on earth due to

- a) Rich population of phytoplankton and seagrass
- b) Its large geographical coverage
- c) Difference in the partial pressure of carbon dioxide between seawater and air
- d) All of the above

15. Which of the following are the Geoengineering techniques designed to tackle the effects of climate change?

- 1. Adding large quantities of lime to the Ocean water to increase the amount of CO₂ absorption by the oceans.
- 2. Floating thousands of tiny mirrors in space between Earth and the sun.
- 3. Using unmanned ships to increase above-ocean cloud cover by spraying sea water into the air.
- 4. Artificial trees that pull the CO₂ from the atmosphere using plastic polymers.

Select the correct answer code:

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

16. Which of the following are the Ozone depleting substances?

- 1. Hydrobromofluorocarbons (HBFCs)
- 2. Halons
- 3. Carbon tetrachloride
- 4. Methyl chloroform
- 5. Methyl bromide

Select the correct answer code:

- a) All except 3
- b) All except 4
- c) All except 5
- d) All of the above

17. Which of the following correctly assesses the impact of climate change on agriculture and food security?

- 1. Crop yield may be reduced in most tropical and sub-tropical regions due to decreased water availability.

2. Insect or pest incidence may increase leading to greater crop losses.

Which of the above is/are correct?

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

18. The chemical oxygen demand (COD) test is commonly used to measure which of the following?

- a) Amount of oxygen used in an oxygenation process
- b) Computing oxygen levels in forest ecosystems
- c) Oxygen required to decompose organic constituents present in the wastewater
- d) None of the above

19. Which of the following pollutants are directly emitted from motor vehicles?

- 1. Particulate matter
- 2. Un-burnt hydrocarbons
- 3. Ozone
- 4. Carbon monoxide
- 5. Methane

Select the correct code:

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

20. Which of the following will reduce Global Warming in the short-term?

- a) Melting of permafrost In the Arctic region
- b) Increased rice cultivation
- c) Greater promotion of cattle breeding in developing countries
- d) Major and sustained volcanic explosions

21. Consider the following statements regarding Book 'Operation Khatma'

- 1. A book titled 'Operation Khatma' authored by R C Ganjoo & Ashwini Bhatnagar

2. His book is based upon the operation by the Special Operations Group of Jammu & Kashmir Police which led to the killing of 22 terrorists of the Jammu & Kashmir Liberation Front (JKLF).

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

22. Consider the following statements regarding new Durbar Hall at Raj Bhavan

1. President Ram Nath Kovind inaugurates new Durbar Hall at Raj Bhavan
2. It is situated at Malabar Hill, Mumbai.

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

23. Consider the following statements regarding India's first biomass-based hydrogen plant

1. India's first biomass-based hydrogen plant to come up at Andhra Pradesh
2. The company owns the technology for a 'thermally accelerated anaerobic digestion (TAD) reactor' that can produce hydrogen, methane and biochar from biomass.

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

24. Consider the following statements regarding Statue of Equality

1. Statue of Equality is 216-foot statue of saint Ramanujacharya at Hyderabad
2. To celebrate the 1,000th birth anniversary of the saint Ramanujacharya an 11th-century saint

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

25. Which of the following are the applications of supercomputers?

1. Developing platforms for genomics and drug discovery

2. Studying urban environmental issues

a) 1 only

b) 2 only

c) Both 1 and 2

d) Neither 1 nor 2

ANSWER SHEET

1	C	10	D	19	A
2	D	11	C	20	D
3	A	12	B	21	C
4	B	13	C	22	C
5	B	14	D	23	B
6	C	15	D	24	C
7	A	16	D	25	C
8	B	17	C		
9	C	18	C		