

1-The largest human source of carbon dioxide emissions is from

- a) Industrial processes
- b) Combustion of fossil fuels
- c) Agricultural fields
- d) Clearing of forests

2. The primary productivity of the tropical rain forest is lower when compared to that of the temperate forests. This is because of

- a) Intense leaching of soil in tropical rain forests
- b) Low microbial activity in tropical regions
- c) Dense vegetation Cover in tropical rain forests
- d) Practice of slash and burn agriculture in many tropical regions

3. Which of the following conditions generally lead to coral bleaching?

- 1. Low sedimentation of ocean beds
- 2. Unusually warm ocean water
- 3. Acidification of oceans

Select the correct answer code:

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

4. What is/are the contributions of Coral Reefs to an ecosystem?

- 1. These support fish production by providing them with food and shelter.
- 2. They control the concentration of carbon dioxide in the lower atmosphere and in the sea water.
- 3. They check sea waves against going towards sea coasts.
- 4. They have the highest primary productivity amongst all ecosystems.

Select the correct answer code:

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

c) 2, 4

d) 1, 2, 3, 4

5. Consider the following statements regarding the application of algae.

1. Used to make Biodiesel and Bioethanol.
2. It is a complete protein with essential amino acids.
3. Used as fertilizers and soil conditioners.
4. Used in Wastewater Treatment.

Which of the above statements is/are correct?

a) 1, 2, 3

b) 2, 3, 4

c) 1, 2, 4

d) 1, 2, 3, 4

6-Consider the following statements regarding Vegetative Propagation.

1. Plants raised by vegetative propagation can bear flowers and fruits earlier than those produced from seeds.
2. Vegetative propagation is not possible from the plants that have lost the capacity to produce seeds.
3. Plants produced through vegetative propagation are genetically similar enough to the parent plant.

Which of the above statements is/are correct?

a) 1, 2

b) 1, 3

c) 2, 3

d) 1, 2, 3

7. Consider the following statements.

1. Phytoplanktons are the foundation of the aquatic food web as the primary producers and they help absorb atmospheric carbon dioxide.
2. Zoo plankton feed on phytoplankton and play a vital role in transfer of organic matter from primary producers to secondary consumers.

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. Which of the following products can be extracted from seaweeds?

- 1. Agar-agar
- 2. Iodine
- 3. Alginates

Select the correct answer code:

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

9. In which among the following ways do plastics raise the risk of disease outbreaks on coral reefs?

- a) Plastic debris stress corals through blocking out light and oxygen, thereby giving pathogens a chance to take hold
- b) Pathogens in the ocean thrive on plastic surfaces, thereby increasing their numbers and the vulnerability of corals with elevated levels of plastic pollution around reefs
- c) Coral organisms get infected by sharp plastic fragments that cut them, following which the disease spreads across the coral colony
- d) a, b and c

10. An ecological pyramid is a diagrammatic presentation to describe trophic levels. How does the knowledge of ecological pyramid can help us in conservation of an ecosystem?

- 1. It helps us to identify bio-accumulation.
- 2. It helps us to identify bio-magnification.
- 3. It helps us to recognize an invasive species.

Select the correct answer code:

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

c) 2, 3

d) 1, 2, 3

11-What is the major theme running common between the Central Indian and Rajasthani schools of painting?

a) They are rooted in the Indian traditions.

b) They are highly secular in nature.

c) They are unaffected by historical developments and carry a unique style.

d) They use light colours to portray extra-terrestrial themes.

12. Which of the following are the features of Apabhramsa School of painting

1. Jainism was the main theme of these paintings.

2. Pointed nose and double chin in human depiction.

3. Absence of animals and birds

Select the correct answer code:

a) 1, 3

b) 1, 2

c) 2, 3

d) 1, 2 and 3

13. The subjects covered by Natya Shastra include

1. Dramatic composition

2. Musical composition

3. 'Rasa' theory

Select the correct answer code:

a) 2 only

b) 1, 3

c) 1, 2, 3

d) 1, 2

14. Consider the following statements about Kuchipudi.

1. It is mentioned in Natya Shastra.

2. As per tradition, the dance must be accompanied by live vocals and not music.
3. It is recognized as an Indian classical dance.

Which of the above statements is/are correct?

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

15. Gadhika and Naikkar Kali are the tribal art forms of which state

- a) Tamil Nadu
- b) Odisha
- c) Telangana
- d) Kerala

16. Consider the following statements regarding Pietra dura.

1. It consists of a series of long pillars used to support dome like structures.
2. It was used on a large scale in the Taj Mahal by Shah Jahan.

Which of the above statements is/are correct?

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

17. Consider the following statements

1. The Pala School of painting produced some of the earliest examples of miniature painting in India.
2. Pala School of painting witnessed the last great phase of Buddhism in its painting.

Which of the above statements is/are correct?

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

d) Neither 1 nor 2

18. Consider the following statements.

1. The Nayaka paintings depict episodes from the Mahabharata and the Ramayana.
2. The Nayaka paintings style were developed in ideological opposition to the Vijayanagara arts and architecture.

Which of the above statements is/are correct?

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

19. Tirumalaipuram paintings were patronized under:

- a) Pallavas
- b) Pandyas
- c) Cholas
- d) Vijayanagar Kingdom

20. Consider the following statements.

1. Yakshagana is a traditional theatre form of Kerala.
2. Yakshagana is a temple art form that depicts mythological stories and Puranas.

Which of the above statements is/are correct?

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

21. Consider the following statements.

1. PM Narendra Modi Hosts First India-Central Asia Virtual Summit
2. The central Asian region has five recognized countries except Republic of Uzbekistan.

Which of the above statements is/are correct?

- a) 1 only

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

22. Consider the following statements.

1. The Narcotics Control Bureau (NCB) is organising a “Darkathon-2022” to find solutions to counter drug trafficking through the darknet.
2. The initiative aims at involving students, youth and technical experts to find effective solutions to unravel the anonymity of darknet markets.
3. Narcotics Control Bureau Director-General: Satya Narayan Pradhan

Which of the above statements is/are correct?

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

23. Consider the following statements.

1. 1st BRICS Sherpas meeting of 2022 held under Brazilian chairship
2. Brazil has taken on the rotating chairmanship of BRICS in 2022 and BRICS is a grouping of five major emerging economies — Brazil, Russia, India, China, and South Africa.

Which of the above statements is/are correct?

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

24. Consider the following statements regarding Mithali Raj

1. Mithali Raj becomes first woman cricketer to appear at six Cricket World Cups
2. She is the only third cricketer overall to play six world cup after Sachin Tendulkar and Javed Miandad.

Which of the above statements is/are correct?

- a) 1 only

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

25. Consider the following statements regarding Indian Premier League (IPL)

1. Board of Control for Cricket in India (BCCI)'s, Indian Premier League (IPL) Governing Council has announced National Payments Corporation of India (NPCI)'s flagship product RuPay as an official partner for the Tata IPL 2022.

2. The 14th edition of Tata IPL 2022 will start on 26th March 2022.

Which of the above statements is/are correct?

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

### **ANSWER SHEET**

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