

1. Consider the following statements.

1. Continuous passage of electric current in a circuit produces heat.
2. Electrons are consumed in an electric circuit.

Which of the above statements is/are correct?

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

2. Consider the following statements regarding Hydrogen.

1. It is highly flammable.
2. Hydrogen does not occur in deposits or reserves like fossil fuel.
3. Water is the most abundant compound of hydrogen found on earth.

Which of the above statements is/are correct?

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

3. Consider the following statements.

1. India has built Integrated check posts (ICPs) only on the borders with Bangladesh and Nepal.
2. On the Indian side, the Integrated check posts are built by the Land Port Authority of India (LPAI), which is under Ministry of Home Affairs.

Which of the above statements is/are correct?

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

4. Consider the following statements regarding Nano Urea.

1. In comparison to Conventional Urea the uptake efficiency of Nano Urea is more than 80%.
2. In the long run, Nano urea liquid reduces the emissions of nitrous oxide into soil, air and water bodies.
3. Nano Urea is relatively costlier than conventional urea.

Which of the above statements is/are correct?

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

5. Artificial Intelligence is beneficial in which of the following areas?

1. GPS mapping technology
2. Personalized online Shopping
3. Identify nutrient deficiencies in the soil
4. Credit card frauds prevention
5. Self-driving vehicles

Select the correct answer code:

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

6. Which of the following can be achieved using Nanotechnology?

1. Delivery of active drugs to target tissues in the Human eye.
2. Deliver drugs at the cell-level using DNA-based nanostructures.

3. Manipulation of nanoscale biological specimens such as bacteria, viruses and proteins in human body using light.

Select the correct answer code:

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

7. Consider the following statements regarding Small Satellite Launch Vehicle (SSLV).

- 1. SSLV is a small-lift launch vehicle being developed by ISRO and marketed by New Space India Limited (NSIL).
- 2. It can launch satellites only to Low-earth orbit.
- 3. It has the payload capacity of 500 kg.

Which of the above statements is/are correct?

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

8. Consider the following statements.

- 1. Reusable Launch Vehicle-Technology Demonstrator (RLV-TD) is India's first uncrewed flying testbed developed for ISRO's Reusable Launch Vehicle Technology Demonstration Programme.
- 2. GSLV Mark II uses an Indian cryogenic engine and is capable of launching 2500 kg into geostationary transfer orbit.

Which of the above statements is/are correct?

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

9. Consider the following statements.

- 1. The boundary between India and Pakistan was re-designated as the Line of Control following the Simla Agreement.
- 2. The original ceasefire agreement between India and Pakistan was reached soon after the Simla Agreement.

Which of the above statements is/are correct?

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

10. Consider the following statements regarding China-Pakistan 1963 agreement.

- 1. It resulted in Pakistan handing over the Shaksgam Valley of Aksai Chin to China.
- 2. The agreement is recognized as legal by India.
- 3. India and Bhutan are China's only land neighbours that don't have a resolved boundary.

Which of the above statements is/are correct?

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

11. Consider the following statements regarding Chindu Yakshaganam.

- 1. It is a form of entertainment in villages across Tamil Nadu.
- 2. The artists skilfully depict classic tales from the epics and entertain the masses.
- 3. The Chindu community has traditionally been a nomadic community.

Which of the above statements is/are correct?

- a) 1, 2

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

12. Consider the following statements regarding Kutiyattam.

1. Kutiyattam, which is practised in Kerala, is one of India's oldest living theatrical traditions.
2. It is officially recognised by UNESCO as a Masterpiece of the Oral and Intangible Heritage of Humanity.
3. The neta abhinaya and hasta abhinaya are prominent in Kutiyattam.

Which of the above statements is/are correct?

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

13. Consider the following pairs of Art Form and where they are practiced in

1. Garodas – Gujarat
2. Oja-Pali – Himachal Pradesh
3. Kariyila – Assam

Which of the above pairs is/are correctly matched?

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

14. Consider the following statements regarding Jataka tales.

1. The Jataka tales are a voluminous body of literature native to India concerning the previous births of Gautama Buddha, but only in human form.
2. In Theravada Buddhism, the Jatakas are a textual division of the Pali Canon.
3. Many stupas in northern India are said to mark locations from the Jataka tales.

Which of the above statements is/are correct?

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

15. Which of the following are major features of Chola age paintings?

1. They were often done on temple panels.
2. They show narrations and aspects related to Lord Shiva.
3. They avoid depictions of humans and plants.

Select the correct answer code:

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

16. Consider the following statements regarding the contributions of Varahamihira.

1. Varahamihira's main work is the book Pañcasiddhāntikā that includes five principles for a moral life.
2. Varahamihira improved the accuracy of the sine tables of Aryabhata.

Which of the above statements is/are incorrect?

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

17. Consider the following statements regarding Vesara style of temple architecture.

1. The Vesara style is described as the 'Central Indian temple architecture style'.

2. The trend was started by the Chalukyas of Badami who built temples in this style.
3. It lost prominence during Rashtrakutas and Hoysalas, who built temples mainly in Dravidian style.

Which of the above statements is/are correct?

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

18. Consider the following statements regarding bhakti saint Shankaradeva.

1. Shankaradeva was a proponent of Vaishnavism in Assam.
2. His teachings were based on the Bhagavad Gita which focused on absolute surrender to the supreme deity.
3. He was against the establishment of satra or monasteries for the transmission of spiritual knowledge.

Which of the above statements is/are correct?

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

19. Consider the following statements regarding Sufism.

1. The terms Sufi, Wali, Darvesh and Faqir are used for Muslim saints who attempted to achieve development of their intuitive faculties through ascetic exercises, renunciation and self-denial.
2. Sufis regarded God as the supreme beauty and believed that one must admire it, and concentrate his attention on Him only.
3. Sufism took roots in both rural and urban areas and exercised a deep social, political and cultural influence on the masses.

Which of the above statements is/are correct?

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

20. Consider the following statements:

1. Kabir and Nanak were the saints of sectarian Bhakti Movements.
2. One of the impacts of Bhakti movement was use of Hindu deities in Sufi works.

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. The National Institute of Solar Energy (NISE) is the statutory body under Ministry of Power
2. NISE is the organizer of Suryamitra Skill Development Programmes
3. The Suryamitra Skill Development Programmes are sponsored by Ministry of Skill Development and Entrepreneurship

Choose the correct answer using the code given below

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

22. Consider the following statements

1. Interim Bail is a bail granted for a short period of time and it is granted before the hearing for the grant of regular bail or anticipatory bail.

2. An application for the grant of anticipatory bail can be filed by the person who discerns that he may be arrested by the police for a non-bailable offence.

Select the incorrect statements:

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

23. Consider the following statements regarding 'International space station (ISS)'

- 1. ISS takes the same time to revolve around the earth as the earth takes to rotate in its own axis
- 2. ISS is placed in Low Earth Orbit(LEO) at an altitude of around 400km from the earth surface.

Select the correct statement(s)

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

24. Consider the following statements about N-Treat technology

- 1. N-Treat Technology is developed by Indian Institute of Technology-Bombay
- 2. It is a seven-stage process for waste treatment
- 3. It is a natural and environment friendly way for sewage treatment

Choose the correct statements:

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

25. Consider the following statements regarding appointments of judges

- 1. The SC collegium is headed by the CJI and comprises four other senior most judges of the court.
- 2. Judges of the higher judiciary are appointed only through the collegium system

Select the correct statement(s)

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