

HIS/CA/G.Sci/Sci.tech

1. Consider the following statements:

1. In Vitro Fertilization (IVF) – This technique introduces previously selected semen into the woman's uterus that has been prepared by stimulating ovulation.
2. Artificial Insemination - This technique involves the retrieving of a woman's eggs to be fertilized in the laboratory.

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**

2. Which of the following statement is correct about the Cell membrane?

- a) It is made up of cellulose.
- b) It is a permeable structure for all substances.
- c) It is flexible and enables the cell to engulf many materials.**
- d) It does not allow diffusion of gases like oxygen and carbon dioxide.

3. Consider the following statements about SARAS 3 radio telescope:

1. It is a precision radio telescope to detect extremely faint radio wave signals.
2. The radio waves have low energy due to their short wavelength.

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

4. In the context of Ancient India, consider the following pairs regarding the Mauryan state: Portfolio Department

1. Rajukas Administration of Justice.
2. Sannidhata Chief custodian of the State Treasury and Store House.
3. Amatyas Civil servants

Select the correct answer using the codes below:

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

5. With reference to the Traditional water management techniques, consider the following statements:

1. Rejwani system is where water percolates through sand, settles on the gypsum layer and is brought for use by a complex capillary system called Beri .
2. Patali pani are the deep aquifers that are determined by geological formation.

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

6. Which of the following are matched correctly?

1. Carbon monoxide - lowers the amount of Oxygen that enters our blood
2. Lead - lowers our resistance to cold and Pneumonia
3. Ground Ozone - can cause nervous system damage
4. Nitrogen oxide - can cause Smog and Acid rain

Select the correct answer using the codes given below

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

7. 'Lilavati', a book by Bhaskara II was based on which of the following theme?

- a) Astronomy
- b) Astrology
- c) Mathematics**
- d) Play and Poetry

8. Har Gobind Khorana's experiments are based on which of the following?

- a) Chain reactions
- b) Dark Matter and Dark Energy**

- c) Radio telescope
d) **Artificial Genes**
9. Which one of the following statements is correct regarding LOFAR (Low-Frequency Array)?
a) **It is the world's most powerful radio antenna.**
b) It is a space technology launched by NASA to discover exoplanets.
c) It is an arrangement of satellites in space for creating the Satellite Navigation System.
d) It is a wireless communication technology for 5G Services.
10. Consider the following statements:
1. The Age of Consent Act (1891) made it unlawful to marry a girl under the age of twelve.
2. The Sarda Act of 1929 raised the marriage age to 18 for boys and 14 for girls.
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
11. Consider the following statements:
1. Lord Dufferin came out with the idea of the "Safety Valve Theory" and convinced A.O Hume for the formation of the Congress.
2. The Marxist conspiracy theory was an offspring of the 'Safety Valve' notion.
3. The early Congress leaders used A.O Hume as a catalyst to bring together the nationalistic forces under the guise of a 'Safety Valve'.
Which of the statements given above is/are correct?
a) 1 and 2 only
b) 2 and 3 only
c) **1 and 3 only**
d) None of the above
12. With reference to the Pradhan Mantri Vaya Vandana Yojana (PMVVY) consider the following statements:
1. It is a pension scheme announced by the Government of India.
2. The scheme is exempted from GST.
3. The scheme can only be terminated after the maturity of the scheme.
Which of the statements given above is/are correct?
a) **1 and 2 only**
b) 2 and 3 only
c) 1 and 3 only
d) 1, 2 and 3
13. With reference to the Organisation for Economic Co-operation and Development (OECD), consider the following statements:
1. It is a group of 38 member countries that discuss and develop economic and social policy.
2. The goal of OECD is to shape policies that foster prosperity, equality, opportunity and well-being for all.
3. Currently, it held Liberia in its 'black list' for being uncooperative tax haven.
Which of the statements given above is/are correct?
a) 1 and 3 only
b) **1 and 2 only**
c) 2 and 3 only
d) 1, 2 and 3
14. With reference to Cave Tradition in Western India, consider the following statements:
1. Junnar caves is also known as Ganeshleni.
2. Kanheri caves showcase proof of the earliest attempts at rainwater harvesting by ancient Indians.
3. Nasik caves are also known as Pandavleni due to their mythological connection to Pandavas.
Which of the statements given above is/are correct?
a) 1 only
b) 2 and 3 only
c) **1 and 2 only**
d) 1, 2 and 3
15. Which one of the following is not the member state of the Shanghai Cooperation Organisation?
a) Russia
b) Uzbekistan
c) **Afghanistan**
d) Kyrgyzstan
16. With reference to Global Warming Potentials (GWP), consider the following statements:

1. It compares the amount of heat trapped by a certain mass of the gas in question to the amount of heat trapped by a similar mass of carbon monoxide.
2. GWP of Carbon dioxide has been fixed as 1.
3. A high GWP correlates with a large infrared absorption and a long atmospheric lifetime.

Which of the statements given above is/are correct?

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

17. With reference to Quantum Key Distribution, consider the following statements:

1. It is a new mechanism for faster communication between satellites and ground station.
2. It uses a quantum system that relies on basic and fundamental laws of nature rather than relying on mathematics.
3. India has successfully tested this technique in field testing.

Which of the statements given above is/are correct?

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

18. With reference to the cultural history of medieval India, which of the following are types of the Shaiva sect ?

1. Kapalika Panth
2. Vallabhacharya Sampradaya
3. Dashnami Sampradaya
4. Dadu Panth

Select the correct answer using the code given below:

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

19. Which of the following are the reasons for the decline of Mauryan dynasty?

1. A quick succession of weak rulers who couldn't maintain a strong central empire.
2. Increase in inefficiency and corruption among the Mauryan bureaucracy.
3. Enormous expenditure on army and bureaucracy caused financial crisis.

Select the correct option using the code given below:

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

20. Land Degradation Neutrality Fund (LDN Fund) recently seen in news is associated with which of the following?

- a) UNFCCC
- b) IMF
- c) UNCCD**
- d) World Bank

21. The Bharata Itihasa Samshodhaka Mandala (BISM) was founded in 1910 by:

- a) Vishwanath Kashinath Rajwade**
- b) Ramakrishna Gopal Bhandarkar
- c) Rajendra Lal Mitra
- d) K.A. Nilakanta Sastri

22. The Battle of Bhima-Koregaon was part of which of the following war?

- a) Fourth Anglo-Mysore war
- b) Second Anglo-Maratha war
- c) Third Anglo-Maratha war**
- d) None of the Above

23. Under the Indian Official Secrets Amendment Act of 1904 he restricted freedom of press.

Which of the following Governor General is associated with the above statements?

- a) Lord Dalhousie
- b) Lord Curzon**
- c) Lord Lytton
- d) Lord Minto

24. Consider the following statements:

1. Ramananda was first Bhakti saint and founder of Bhakti Movement of northern India.
 2. He was a disciple of Shankaracharya
- which of the above statements is/are incorrect?

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

25. Which of the following cells have a cell wall?

1. Plant Cell
2. Fungal Cell
3. Eggs of Oviparous animals

Select the correct answer using the code given below.

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



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