

HIS/CA/SC and TECH

1. With reference to the religious history of India, consider the following statements:

1. Madhyamaka and Yogachara were the philosophical schools within the Mahayana sect of Buddhism.
2. The Sthaviras gave rise to several schools, one of which was the Theravada school.
3. Sarvastivadins and Mahasanghikas together formed the Hinayanists.

Which of the statements given above is/are correct?

a. 1 and 2

- b. 2 only
- c. 1 and 3
- d. 3 only

2. With reference to the scholars/litterateurs of ancient India, consider the following statements:

1. Banabhatta is associated with Harshavardhana.
2. Asvaghosa is associated with Kanishka.
3. Bharavi is associated with Samudragupta.

Which of the statements given above is/are correct?

a. 1 and 3

b. 1 and 2

- c. 2 only
- d. 1, 2 and 3

3. From the decline of Guptas until the rise of Harshavardhana in the early seventh century, which of the following kingdoms were holding power in Southern India?

1. Pallavas of Kanchipuram
2. Imperial Cholas
3. Chalukyas of Badami
4. Kaktiyas of Warangal
5. Hoysalas of Dwarasamudra

Select the correct answer using the code given below.

a. 1, 2, 3, 4 and 5

b. 2, 3 and 4 only

c. 1 and 3 only

d. 1, 2 and 5

4. Which one of the following statements is correct?

- a. The figures in Ajanta caves were done using Peitra-Dura style and demonstrate considerable naturalism.
- b. The paintings are generally themed around Mahayana Buddhism.
- c. The Ajanta caves were inscribed by the Buddhist monks, under the patronage of the Vakataka kings.**
- d. Reference of the Ajanta caves can be found in the travel accounts of Chinese Buddhist traveller Itsing.

5. Consider the following statements:

1. Madhyamika Karika, the basic text of Madhyamika School, was composed by Nagarjuna.
2. According to the Mimamsa system of philosophy, liberation is possible by means of Jnana.

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. In Mughal paintings, one notices the adoption of the principle of foreshortening whereby near and distant people and things could be placed in perspective. This was due to the influence of the

- a. British
- b. Dutch

c. Portuguese

d. Danish

7. With reference to the history of India, "Praharis, Banuas, and Dhenkias" are associated with which of the following events?

a. Kol Mutiny

b. Khurda Uprising

c. Pahariya's Rebellion

8. The British India came up with 'sunset law', this law was regard to which of the following land revenue systems?

a. Permanent Settlement

b. Taluqdari system

c. Ryotwari system

d. Mahalwari syetem

9. The objective of the Plan Balkan was to:

- a. Create rivalry between Muslims and Hindus.
 - b. To influence the lower classes against the bourgeoisie.
 - c. Enable transfer of complete governance to separate provinces.**
 - d. Provide for racial discrimination between Indian and white soldiers.
10. Who among the following revolutionaries were associated with the "Zimmerman Plan"?
- 1. Virendranath Chattopadhyay
 - 2. Bhupendranath Dutta
 - 3. Lala Hardayal
 - 4. Raja Mahendra Pratap Singh

Select the correct answer using the code given below.

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

11. With reference to Nuclear energy, consider the following statements:

- 1. Fission generates several times greater energy than Fusion.
- 2. Fusion doesn't produce highly radioactive fission products.

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

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

12. Poly Chlorinated Biphenyls (PCBs), considered harmful when exposed to high levels for a long time, is most likely present in which of the following?

- a. Electronic appliances**
- b. Food packaging
- c. Reused plastic containers
- d. None of the above

13. Consider the following statements:

- 1. CRISPR-Cas9 technology enables geneticists and medical researchers to edit parts of the genome.
- 2. It is the most versatile and precise method of genetic manipulation.

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

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

14. In a dam, the pressure which the water exerts on its walls depends mainly upon which of the following?

- 1. Depth of water in the dam
- 2. Gravity
- 3. Extreme variation in temperatures

Select the correct answer using the codes given below.

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

15. Which of the following correctly describes R21/Matrix M?

- a. It is a new Machine Learning method that can solve all the matrix problems.
- b. It is a new vaccine showing promising results to contain Malaria.**
- c. It is a new crypto-currency which is valid for all online transactions.
- d. It is a new asteroid which have the potential to support life.

16. Which of the following are the constituents of nucleic acid?

- 1. Sugar
- 2. Phosphate
- 3. Nitrogenous base
- 4. Potassium base

Select the correct answer using the code given below.

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

17. Which one of the following statements is correct?

- a. **Weight of an object may vary from place to place but its mass remains constant.**
 b. Mass of an object may vary from place to place but its weight remains constant.
 c. Both weight and mass of an object do not vary from place to place.
 d. Both weight and mass of an object vary from place to place.
18. With reference to the Molecular Mass, which of the following statement is not correct?
 a. It refers to the total of all the atomic masses of the atoms which form a compound.
 b. It is the measure of mass related to a molecule.
 c. **It tends to be determined by excluding the mass of every atom duplicated by the number of atoms of the element present in the molecule.**
 d. The molecular mass of elements relies on the constituent atoms of the molecule.
19. Consider the followings:
 1. Burning fuels
 2. Smelting iron
 3. Making glass and pottery
 4. Brewing beer, and making wine
 Which of the following is/are examples of Chemical reactions?
 a. 1 and 4 only
 b. **1, 2, 3, and 4**
 c. 2, 3, and 4 only
 d. 3 and 4 only
20. With reference to the Amino Acids, consider the following statements:
 1. Amino acids contain amino ($-NH_2$) and carboxyl ($-COOH$) functional groups.
 2. All amino acids have trivial names, which usually reflect the property of that compound or its source.
 3. Amino acids are classified as acidic, basic or neutral depending upon the relative number of amino and carboxyl groups in their molecule.
 Which of the above statement is/are correct?
 a. **1, 2 and 3**
 b. 2 and 3 only
 c. 1 and 2 only
 d. 1 and 3 only
21. Consider the following statements with regards to World Wildlife Conservation Day
 1. World Wildlife Conservation Day is celebrated on December 4 every two year.
 2. It has been celebrated immediately after Rio Earth summit.
 Which of the above statement/s is/are no correct?
 a) 1 only
 b) 2 only
 c) **Both 1 and 2**
 d) Neither 1 nor 2
22. Recently "SHE STEM - 22" is a flagship event between India and which of the following country?
 a) Netherland
 b) France
 c) Russia
 d) **Sweden**
23. With reference to the Agriculture Infrastructure Fund which was in news recently, consider the following statements:
 1. It aims to promote investment in viable projects for post-harvest management infrastructure and community farming assets.
 2. The funds under this scheme are extended only to State agencies and Agricultural Produce Marketing Committees (APMCs).
 3. Credit guarantee coverage will be available under Credit Guarantee Fund Trust for Micro and Small Enterprises (CGTMSE) scheme.
 Which of the statement/s given above is/are correct?
 a) **1 and 3 only**
 b) 2 and 3 only
 c) 2 only
 d) 1, 2 and 3
24. Justice G Rohini Commission often mentioned in news, which of the following statement/s is/are not correct with regards to this?
 1. The Commission has been set up to examine sub-categorisation of other backward classes (OBCs).
 2. The commission was set up by the President under Article 340.
 Choose the correct answer using the codes given below

- a) 1 only
 - b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 nor 2
25. With respect to the Corporate Social Responsibility, consider the following statements:
- 1. It is governed by the Companies Act, 2013.
 - 2. India is the first country in the world to mandate CSR spending along with a framework to identify potential CSR activities.
 - 3. It is applicable to companies with an annual turnover of 5,00 crores and more, or a net worth of Rs. 100 crores and more, or a net profit of Rs. 5 crores and more.
- 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) 3 only



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