

CTET 2024 Paper 2 Code G (EVS)

Direction: Answer the following questions by selecting the correct/most appropriate options.

Q1. (A) hormone regulator Carbohydrate, protein and fat metabolism in our body. It is secreted by (B) gland and (C) in our diet impacts the functioning of this gland.

(A), (B), (C) respectively are :

- (a) Thyroxine, Thyroid, Iodine
- (b) Growth hormone, Pituitary, Proteins
- (c) Insulin, Pancreas, Sugar
- (d) Adrenaline, Adrenal, Salts

Q2. Which of the following statements is/are true regarding the function of bile juice in human digestive system ?

- (A) It makes the partly digested food coming from stomach alkaline.
- (B) It helps in digestion of fats.
- (a) Both (A) and (B) are true
- (b) Both (A) and (B) are false
- (c) (A) is true and (B) is false
- (d) (A) is false and (B) is true

Q3. The density of medium A is more than medium B but less than medium C. In which medium does the sound travels fastest?

- (a) C
- (b) Can 't be inferred from this information
- (c) A
- (d) B

Q4. Which of the following statements is correct ?

S1 : The normal temperature of the human body is 37°C.

S2 : Heat flows from a body at a higher temperature to a body at lower temperature.

- (a) S 1 is observation and S 2 is inference
- (b) S 1 is inference and S 2 is observation
- (c) Both S1 and S2 are observation
- (d) Both S1 and S2 are inferences

Q5. While ice melts at 0°C, its temperature :

- (a) remains same
- (b) first decreases and then remains same
- (c) increases
- (d) decreases

CTET 2024



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Q6. Which of the following strategies would support inquiry oriented science teaching ?

- (a) Engaging students in floating and sinking activities
- (b) Explaining the difference between real and apparent weight
- (c) Define and explain Archimede's principle
- (d) Demonstrating the loss in weight of an object when immersed in water

Q7. Complete the following table :

| Atomic number | Mass number | No. of electrons | No. of protons | No. of neutrons |
|---------------|-------------|------------------|----------------|-----------------|
| 9 | A | B | C | 10 |
| D | 24 | E | 12 | F |

A, B, C, D, E, F respectively are :

- (a) 9,10,9,24,12,12
- (b) 9,9,10,24,12,12
- (c) 19,10,9,12,12,12
- (d) 19,9,9,12,12,12

Q8. Which of the following statements are not true regarding compounds ?

- (A) Compounds show the properties of constituent substances.
 - (B) Only elements can react to form compounds.
 - (C) The composition of each compound is always fixed.
 - (D) Compounds can be separated by physical and chemical methods.
- (a) (A), (B), (D)
 - (b) (A), (C), (D)
 - (c) (A), (B), (C)
 - (d) (B), (C), (D)

Q9. Assertion (A) : Convex mirrors are used as rearview-mirrors in vehicles.

Reason (R1): They form erect and enlarged image.

Reason (R2): They have wider field of view.

- (a) (A) is true and only (R₂) is correct explanation for (A).
- (b) (A) is true but neither (R1) nor (R2) are correct explanation for (A).
- (c) (A) is true and both (R1) and (R2) are correct explanations for (A).
- (d) (A) is true and only (R1) is correct explanation for (A).

Q10. Assertion (A) : Nichrome is used as a heating element in devices like electric toaster and electric geyser.

Reason (R) : Nichrome has high melting point and low resistivity.

- (a) (A) is true and (R) is false
- (b) Both (A) and (R) are false
- (c) Both (A) and (R) are true and (R) is correct explanation for (A)
- (d) Both (A) and (R) are true but (R) is not correct explanation for (A)

Q11. Children of all age groups have various ideas which may be different from science concepts. Which of the following statements are true regarding these ideas?

- (A) These ideas are usually stable
 - (B) They are formed due to observable phenomenon
 - (C) They tend to follow similar developmental pattern
 - (D) They are easy to modify
 - (E) They are often domain specific
- (a) (A), (B), (C), (D)
(b) (A), (B), (C), (E)
(c) (A), (B), (C)
(d) (B), (C), (D)

Q12. Assertion (A) : Arteries have thick and elastic walls as compared to veins.

Reason (R): The pressure of blood flow in arteries is low as compared to veins.

- (a) (A) is true and (R) is false.
- (b) Both (A) and (R) are false.
- (c) Both (A) and (R) are true and (R) is correct explanation for (A).
- (d) Both (A) and (R) are true but (R) is not correct explanation for (A).

Q13. Which of the following statements are true ?

- (A) Crystallisation is a chemical change.
 - (B) Photosynthesis is a chemical change.
 - (C) Ripening of fruit is a physical change.
 - (D) Formation of curd from milk is a chemical change.
- (a) (B) and (C)
(b) (C) and (D)
(c) (A) and (B)
(d) (B) and (D)

Q14. When a ray of light enters from medium A to medium B , its speed decreases and on further entering into medium C , its speed increases.

Which of the following conclusions can be drawn from this ?

- (a) Refractive index of A and C are less than B
- (b) Refractive index of A, B, C cannot be compared from above information
- (c) Refractive index of A is more than B and C
- (d) Refractive index of A is less than B but equal to C

Q15. The buoyant force on an object immersed in liquid acts in :

- (a) All direction
- (b) Parallel to liquid surface
- (c) Upward direction
- (d) Downward direction

Q16. Which of the following statements is/are true regarding relative reactivity of metals ?

- (A) Zinc is more reactive than Iron but less reactive than Aluminium.
- (B) Sodium is more reactive than Potassium and Calcium.
- (C) Aluminium is more reactive than Magnesium.
- (a) (B) and (C)
- (b) Only (C)
- (c) (A) and (B)
- (d) Only (A)

Q17. Which of the following have the most scope for promoting Art integrated learning in Science ?

- (a) Anecdotal records, Journal writing
- (b) Journal writing, Field trips
- (c) Portfolios, Anecdotal records
- (d) Projects, Portfolios

Q18. (A) is a technique of vegetative propagation in which a part of the stem or a young branch of a plant is pulled and buried in moist soil, such that the branch is still attached to the Parent Plant. After some time, roots develop in the buried part and it grows into a new plant. (B) is an example of plant usually grown through this technique.

(A) and (B) respectively are :

- (a) Budding, Hydra
- (c) Cutting, Potato
- (b) Layering, Jasmine
- (d) Grafting, Rose

Q19. Read the following statements in the context of Laws and theories in Science :

S1: Laws are generalisation statement whereas theories are explanations.

S2 : Laws are very old and theories are contemporary.

S3 : Laws can't be changed whereas theories are subject to change.

- (a) S 1 and S 3 are true whereas S 2 is false
- (b) S 3 is true whereas S 1 and S 2 are false
- (c) S 1 is true; S 2 and S 3 are false
- (d) S 1 and S 2 are true whereas S 3 is false

Q20. Assertion (A) : Achievement in STEM related courses is influenced by gender.

Reason (R): Problem solving strategies used by boys and girls are different.

- (a) (A) is true and (R) is false.
- (b) Both (A) and (R) are false.
- (c) Both (A) and (R) are true and (R) is correct explanation of (A).
- (d) Both (A) and (R) are true but (R) is not correct explanation of (A).

Q21. Which of the following statements are true in the context of respiration in whales and dolphins?

- (A) They cannot use dissolved Oxygen.
 - (B) They have gills.
 - (C) They have large nostrils.
 - (D) They often come up to the water surface to breathe.
- (a) (B), (C), (D)
 - (b) (A), (B), (D)
 - (c) (A), (B), (C)
 - (d) (A), (C), (D)

Q22. Which of the following questions is a divergent question ?

- (a) How does gravity vary with the altitude?
- (b) What would happen to gravity if the size of earth is reduced to half?
- (c) Why does a ball thrown up comes down?
- (d) What if there was no gravity on the earth?

Q23. The following activity is done in the class VII :

Students are given four iron bars out of which two are bar magnets. They are asked to identify the bar magnets. Which of the following process skills can be promoted through this activity?

- (a) Observation, Classification, Communication, Measurement
- (b) Observation, Estimation, Experimentation, Controlling variables.
- (c) Observation, Formulating hypothesis, Measuring
- (d) Observation, Classification, Inferring

Q24. Which of the following represents correct matching set in the context of aquatic plants ?

| Adaptation | Purpose |
|--|---|
| (a) Large circular leaves | (i) helpful in protecting against decay |
| (b) Waxy coating | (ii) helpful in offering resistance to water currents |
| (c) Stems have large tunnels and holes | (iii) helpful in providing buoyancy |
| (d) Ribbon like leaves | (iv) helpful in staying afloat |

- (1) (a) - (ii), (b) - (iv), (c) - (iii), (d) - (i)
- (b) (a) - (iii), (b) - (i), (c) - (iv), (d) - (ii)
- (c) (a) - (iii), (b) - (iv), (c) - (ii), (d) - (i)
- (d) (a) - (ii), (b) - (iii), (c) - (i), (d) - (iv)

Q25. S1 - Self pollination can take place only in bisexual flowers.

S2 - Cross pollination can take place only in Unisexual flowers.

- (a) S 1 is true and S 2 is false
- (b) S 1 is false and S 2 is true
- (c) Both S1 and S2 are true
- (d) Both S1 and S2 are false

Q26. On the basis of the following information identify the substances which give flame on burning :

| Substance | State | Vapourises on burning |
|-----------|--------|-----------------------|
| A | Solid | No |
| B | Liquid | Yes |
| C | Solid | Yes |
| D | Liquid | No |

- (a) B and C
 (b) C and D
 (c) A and D
 (d) A and B

Q27. Which of the following statements is/are true regarding nature of science ?

- (A) Scientific ideas are not affected by cultural context.
 (B) There is no single scientific method.
 (a) (A) is false and (B) is true
 (b) Both (A) and (B) are false
 (c) Both (A) and (B) are true
 (d) (A) is true and (B) is false

Q28. (A) Sunita takes 0.5 g of Sodium Carbonate in a test-tube and adds 5 ml of Dilute acid.

(B) She passes the gas produced in the above reaction through Lime water.

Which of the following represents the chemical reactions taking place in (A) and (B)

- (a) (A) $\text{NaHCO}_3 + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O} + \text{CO}_2$
 (B) $\text{Ca(OH)}_2 + \text{CO}_2 \rightarrow \text{CaCO}_3 + \text{H}_2\text{O}$
 (b) (A) $\text{NaHCO}_3 + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O} + \text{CO}_2$
 (B) $\text{CaCO}_3 + \text{H}_2\text{O} + \text{CO}_2 \rightarrow \text{Ca(HCO}_3)_2$
 (c) (A) $\text{Na}_2\text{CO}_3 + 2\text{HCl} \rightarrow 2\text{NaCl} + \text{H}_2\text{O} + \text{CO}_2$
 (B) $\text{CaCO}_3 + \text{H}_2\text{O} + \text{CO}_2 \rightarrow \text{Ca(HCO}_3)_2$
 (d) (A) $\text{Na}_2\text{CO}_3 + 2\text{HCl} \rightarrow 2\text{NaCl} + \text{H}_2\text{O} + \text{CO}_2$
 (B) $\text{Ca(OH)}_2 + \text{CO}_2 \rightarrow \text{CaCO}_3 + \text{H}_2\text{O}$

Q29. Which of the following statements is true?

- (a) Soil with low water holding capacity has poor aeration and low percolation rate
 (b) Soil with low water holding capacity has poor aeration and low percolation rate.
 (c) Soil with low water holding capacity has good aeration and high percolation rate.
 (d) Soil with low water holding capacity has poor aeration and high percolation rate.

Q30. Which of the following should not be the purpose of open book assessment in Science?

- (a) To score more marks in tests
 (b) To give opportunities to explore the book
 (c) To reduce the fear of assessment in learners
 (d) To gauge conceptual understanding of learners

Solutions

- S1. Ans.(a)
- S2. Ans.(a)
- S3. Ans.(d)
- S4. Ans.(a)
- S5. Ans.(a)
- S6. Ans.(a)
- S7. Ans.(d)
- S8. Ans.(a)
- S9. Ans.(a)
- S10. Ans.(a)
- S11. Ans.(b)
- S12. Ans.(a)
- S13. Ans.(d)
- S14. Ans.(c)
- S15. Ans.(c)
- S16. Ans.(d)
- S17. Ans.(d)
- S18. Ans.(b)
- S19. Ans.(a)
- S20. Ans.(d)
- S21. Ans.(d)
- S22. Ans.(d)
- S23. Ans.(d)
- S24. Ans.(c)
- S25. Ans.(d)
- S26. Ans.(a)
- S27. Ans.(a)
- S28. Ans.(d)
- S29. Ans.(b)
- S30. Ans.(a)

