SAFALTA CLASS™

An Initiative by अमर उजाला

Q1. Identify the correct statement.

A. A concave mirror forms an erect as well as inverted image.

B. A convex mirror always forms an inverted image.

C. A convex mirror forms erect as well as inverted image.

D. A concave mirror always forms an erect image.

Q2. 3.7 kg of a fuel is completely burnt to give of 1.65 × 10^8 joules of energy. The calorific value of the fuel in standard unit is:

A. 222

B. 61605

C. 2500

D. 4500

Q3. Which of the following sets contains only the units of measuring distance?

A. Cubit, year, light year

B. , meter, light year, Parallactic Seconds

C. meter, hertz, cubic m.

D. meter, light year, hertz.

Q4. Samar rolls his marble on three different surfaces spread out on floor - cellophane sheet, carpet and newspaper. The force of friction acting on the marble in the increasing order is:

A. Newspaper, Carpet, Cellophane sheet

B. Cellophane sheet, Newspaper, Carpet

C. Cellophane sheet, Carpet, Newspaper

D. Newspaper, Cellophane sheet, Carpet

Q5. An object is moving linearly with a uniform velocity. If time is represented along X-axis then which of the following statements is correct?

A. The velocity-time graph of the motion will be a straight line parallel to Y-axis.

B. The distance-time graph of the motion will be a straight line parallel to Y-axis.

C. The velocity-time graph of the motion will be a straight line parallel to X-axis.

D. The distance-time graph of the motion will be a straight line parallel to X-axis.

Q6. Aman kept a plastic bottle, a wooden span and a metallic spoon in a closed room overnight. The room temperature is 30°C, In the morning he records the temperatures of the three objects as T1, T2 and T3. Which of the following most likely represents the relation between them?

A. $T3 > T2 > T1$

B. $T1 = T2 < T3$

C. $T1 > T2 > T3$

D. $T1 = T2 = T3$

Q7. Which of the following is/are example(s) of noncontact force?

A. Gravitation force

B. Muscular force

C. Magnetic force

D. Both (A) and (C)

Q8. If the frequency of a simple pendulum is 2 Hz, how many oscillations will it complete in 16 seconds?

A. 8

B. 16

C. 32

D. 64

Q9. Hari wants to teach the circular motion to class VI students. Which one of the following will be the best method?

A. Discussion

B. Activity-based teaching

C. Giving examples

D. Demonstration

Q10. Which one of the following is an important aim of learning science?

A. To get knowledge of science

B. To collect the information of science contents

C. To imbibe the values of honesty, integrity and co operation among learners

D. To help the follow colleagues in getting knowledge of science

Q11. The continuous and comprehensive evaluation in science means:

A. summative and formative asassments.

B. more frequent test and examination

C. routine activities and exercises to acess learning

D. evaluation of al aspects of science

Q12. Which one of the following is not a step of problem solving approach?

A. Visualizing the situation

B. Attempt to solve

C. Drawing conclusion

D. Observation

Q13. Which one of the following is a step of analogy strategy in science?

A. Map similarities

B. Presentation of abstraction

C. Interlinking concepts

D. Application

Q14. A science teacher asks her students to put two drops each of oil and sugar solution on a flat surface. She then asks them to tilt the surface and observe the order in which the drops reach the bottom. Which property of the liquids is the teacher trying to bring to the students' attention through this activity?

A. Volume

B. Point

C. Viscosity

D. Solubility

Q15. There are two planets in our solar system whose periods of revolution around the sun are less than those of our earth, but their periods of rotation are more as compared to those of the earth. These planets are

A. Mars and Jupiter

B. Mercury and Saturn

C. Mercury and Venus

D. Uranus and Neptune

Q16. The air near a heat source gets hot and rises. The air from the sides comes in to take its place. This is the way in which the air gets heated by oil heaters. What is this process called?

A. Convection

B. Radiation

C. Diffusion

D. Conduction

Q17. The pressure in a fluid that is at rest

A. acts only in downward direction

B. acts only sideways

C. acts in all directions

D. acts only in vertical direction

Q18. Medium A is optically denser than Medium B. Which one of the following statements is true?

A. Speed of light is more in medium B than in medium A.

B. Speed of light is same in both A and B

C. Cannot be compared.

D. Speed of light is more in medium A than in medium B

Q19. We are not crushed under the weight of atmosphere, Because:

A. the pressure inside our body is more than atmospheric pressure and cancels the pressure from outside.

B. the pressure inside our body is less than atmospheric pressure.

C. the pressure inside our body is equal to the atmospheric pressure and cancels the pressure from outside.

D. the pressure inside our body is more than atmospheric pressure.

Q20. A block of iron dropped in a vessel of water, sinks to the bottom. This is because:

A. the weight of the water displaced by the block is less than the weight of the block.

B. the weight of the block is less than the weight of the water displaced by the block.

C. the density of water is more than the density of the block.

D. the vessel is not deep enough to allow the block to flow

Q21. Which one of following statements is incorrect?

A. A whistle has a high frequency and therefore it produces a sound of higher pitch.

B. Generally the voice of a man is shriller than that of a woman.

C. A bird makes a high pitched sound whereas a lion makes a low-pitched roar.

D. A drum vibrates with a low frequency, therefore it produces a low pitched sound

Q22. There are two planets in our solar system which rotate from east to west. These planets are:

A. Venus and Uranus

B. Mercury and Venus

C. Uranus and Neptune

D. Mercury and Uranus

Q23. Which one of the following is the most appropriate technique of assessment of attitude and values development among students by science education?

A. Paper-pencil test

B. Observation

C. Check-list

D. Rating scale

Q24. A teacher frames a learning objectives as—“Making a device using simple electric circuit.” This learning objective is matching with which cognitive process?

A. Understanding

B. Creating

C. Analyzing

D. Remembering

Q25. Which one of the following validities is most appropriately fulfilled by the concept of ‘shadow formation’ in class VI syllabus at upper primary level?

A. Process

B. Cognitive

C. Environmental

D. Content

Q26. Which one of the following statements about scientific knowledge would you not agree with?

A. Scientific knowledge is absolute, certain and eternal.

B. Development of scientific knowledge involves imagination and creativity.

C. Scientific knowledge is socially and culturally embedded.

D. Scientific knowledge is theory laden.

Q27. Which one of the following planets has no natural satellite of its own?

A. Uranus

B. Mars

C. Venus

D. Jupiter

Q28. A bus covers the first 10 km of its journey at an average speed of 40 km/h and the remaining 45 km at an average speed of 60 km/h. The average speed of the bus for its total journey is

A. 52.5 km/h

B. 55 km/h

C. 50 km/h

D. 57.5 km/h

Q29. An object of mass 6 kg is sliding on a frictionless horizontal surface with a uniform speed of 3 m/s. The force required to keep the object moving at the same speed along the same straight line is

A. 27 N

B. 18 N

C. 54 N

D. zero N

Q30. The reason of sea breeze is

A. During the day, the sea water gets heated faster than the land

B. At night, the land cools down more slowly than the sea water

C. At night, the sea water cools down more slowly than the land

D. During the day, the land gets heated faster than the sea water

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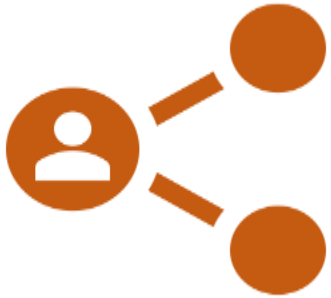

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