
CBSE MIXED TEST PAPER-04

PRACTICAL SKILLS TEST

CLASS - X SCINENCE (Multiple Choice Questions)

[Time: 1.50 hrs.]

[M. M.: 20]

General Instructions:

- (1) Attempt all questions.
- (2) There are 30 multiple choice questions (M.C.Q.) In Total. For every question there are four options marked as (a), (b), (c), (d) but only one of them is correct
- (3) This questions paper consists of two parts marked as section – A and section – B. In section – A there are 20 questions and each one carries 0.5. In section – B there are 10 questions and each one carries 1.0 mark.

SECTION – A

- Q1. Ethanoic acid, solution of sodium bicarbonate and distilled water are kept in three separate test tubes marked I, II and III respectively. A student find PH value?
- (a) I, II, III
 - (b) I, III, II
 - (c) III, I, II
 - (d) III, II, I
- Q2. What is the form of Zinc metal available in the Chemistry Lab to be used for performing experiments?
- (a) As zinc Fillings
 - (b) As zinc rod
 - (c) As zinc granules
 - (d) As zinc pellets
- Q3. In the laboratory SO₂ is collected in the gas jar by which of the following method.
- (a) Downward displacement of air
 - (b) Downward displacement of water
 - (c) Upward displacement of air

(d) Upward displacement of water

Q4. A student was asked to add the white of an egg with water and to stir well. The student observed that-

- (a) A transparent solution is formed
- (b) A translucent mixture is formed
- (c) Egg white settle down at the bottom
- (d) Egg white floats on the surface of water

Q5. When you gently heat a mixture of sulphur powder and iron filings in a china dish, the first change you notice is –

- (a) The mixture evaporate
- (b) A black residue is produced
- (c) A brown gas is evolved
- (d) Sulphur starts melting

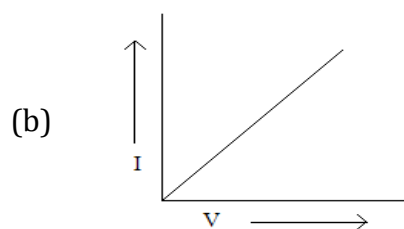
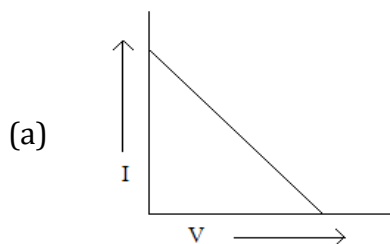
Q6. Water, Alcohol & Ether when left uncovered in separate china dish at room temperature, which of the following processes starts –

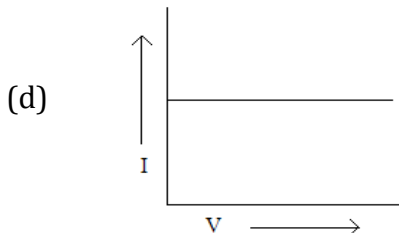
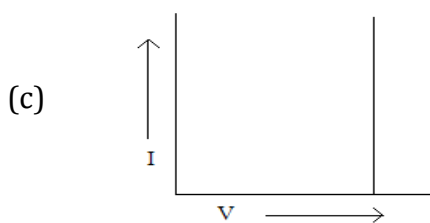
- (a) Distillations
- (b) Evaporation
- (c) Condensation
- (d) Crystallization

Q7. Which one is not observed when aluminum is added to a solution of copper sulphate?

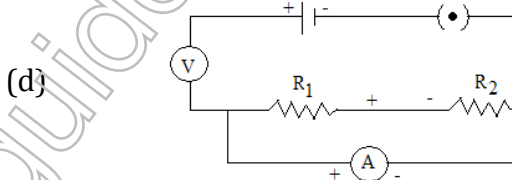
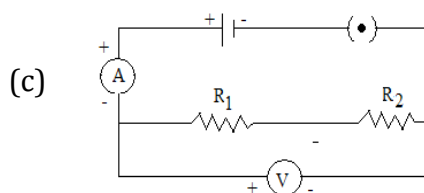
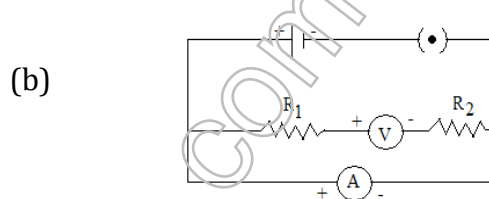
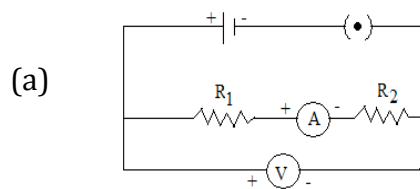
- (a) The solutions is blue in the beginning
- (b) The final solutions becomes colours
- (c) The final solutions becomes light green
- (d) A brown mass is deposited on the surface of aluminum

Q8. The graph between current (I) and potential difference (V) in the experimental verification of ohm's law should of the type –





Q9. In an experiment to determine the equivalent resistance of two resistors R_1 & R_2 in series, which one of the following circuit diagrams shows the correct way of connecting the voltmeter in the circuit.



Q10. A bob when weighed in air has weight 40 g wt. when immersed in water it displaces 4 ml water. The density of the bob is –

- (a) $1 \times 10^3 \text{ g/cm}^3$
- (b) $1 \times 10^4 \text{ kg/m}^3$
- (c) $1 \times 10^2 \text{ kg/m}^3$
- (d) $1 \times 10^{-3} \text{ kg/m}^3$

Q11. Lalit and Reshma performed the experiment of measuring the temperature of hot water as it cools to study the temperature-time graph. Their observations are recorded in the following table.

| Time (minute) | Temperature ($^{\circ}\text{C}$) as observed by Lalit | Temperature ($^{\circ}\text{C}$) as observed by Reshma |
|---------------|---|--|
| 0 | 71 | 71 |
| 2 | 70 | 69 |
| 4 | 69 | 67 |

| | | |
|----|------|------|
| 6 | 67.5 | 65.5 |
| 8 | 66 | 64 |
| 10 | 64 | 63 |
| 12 | 62 | 62 |

The experiment is likely to have been performed correctly by –

- (a) Reshma only
- (b) Lalit only
- (c) Both Reshma & Lalit
- (d) Neither Reshma nor Lalit

Q12. The distance between two consecutive compression or rare fractions in a wave is equal to –

- (a) 2λ
- (b) $\frac{\lambda}{2}$
- (c) $\frac{\lambda}{4}$
- (d) λ

Q13. In which of the following solvent leaf is boiled to remove chlorophyll?

- (a) Water
- (b) Alcohol
- (c) Iodine solution
- (d) Starch solution

Q14. A small electric lamp placed at the focal point of a convex lens produces –

- (a) Converging beam of light
- (b) Parallel beam of light
- (c) Diverging beam of light
- (d) Diffuse beam of light

Q15. Three resistors are connected in parallel with a battery. The current each resistor is 1A. The current drawn from the battery is –

- (a) 1A
- (b) 2A
- (c) 3A
- (d) 4A

Q16. A student prepared two temporary mounts one of onion peel and another of cheek cells but forgot to label the slides. Which of the following observations will help him in identifying the cheek cells slide –

- (a) Presence of nucleus
- (b) Absence of inter cellular
- (c) Presence of cell membrane
- (d) Absence of cell wall.

Q17. The slide under microscope show, in longitudinal sections, the cells are long, elongated, tapering at the ends. It is –

- (a) Parenchyma
- (b) Sclerenchyma
- (c) Striped muscles
- (d) Nerve Cell

Q18. Which of the following have slippery touch and is known as water silp or pond scum?

- (a) Mushroom
- (b) Moss plant
- (c) Fern plant
- (d) Spirogyra

Q19. When blue litmus is added to a solution of acetic acid it turns red. What change or changes will be observed when excess of sodium hydroxide is added to it?

- (a) The mixture turns blue
- (b) The mixture becomes colourless
- (c) The mixture remains red
- (d) All of the above

Q20. A student prepared slides of onion peel kept in pure water and a series of salt solutions of concentrations 1%, 3% & 5%. Which slide will show minimum, shrinkage of cytoplasm?

- (a) Pure water
- (b) 1%
- (c) 3%
- (d) 5%

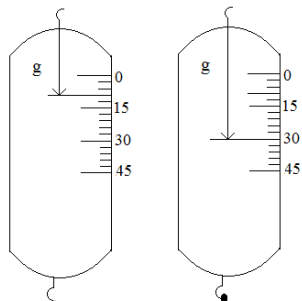
Q21. A bob is hanged from a spring balance. The correct weight of the bob is –

(a) 24 g wt

(b) 30 g wt

(c) 21 g wt

(d) 31 g wt

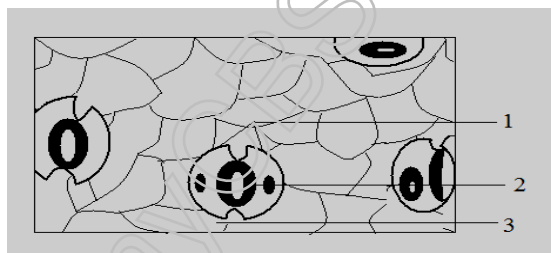


Q22. While verifying the laws of reflection of sound, out of following precautions which is incorrect –

- (a) Table tip should be horizontal
- (b) Length of pipes should be sufficiently long
- (c) The reflecting surface should be smooth & hard
- (d) Ear should not be placed close to the pipe

Q23. Select the correct labeling for the following diagram –

- (a) 1. Epidermal Cells 2. Guard Cells 3. Stomata
- (b) 1. Epidermal Cells 2. Stomata 3. Guard Cells
- (c) 1. Guard Cells 2. Stomata 3. Epidermal Cells
- (d) 1. Stomata 2. Epidermal Cells 3. Guard Cells



Q24. A student confirms binary fission process in a unicellular organism after observing a slide under microscope. He might observe the following –

- (a) An organism having elongated nucleus with constriction in between
- (b) An organism having two nuclei with constriction in between
- (c) May be any of the above
- (d) None of the above

Q25. You have a mixture of sand, iron filling, ammonium chloride and common salt. You use the following processes to separate different components of the mixture.

- (i) Extraction with water
- (ii) Magnetic separation
- (iii) Sublimation

The best sequence to separate the components of the mixture is –

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

Q26. While determining the boiling point of water, accurately, the bulb of thermometer should –

- (a) Dip in water
- (b) Keep just above the surface of water
- (c) Touch the bottom of container
- (d) Near the cork of the container.

Q27. The apparatus required to perform the experiment to show the evolution of CO_2 in respiration include –

- (a) Flat bottom flask, cork, small glass tube, water, KOH solution, bent glass tube, germinating seeds, thread, Vaseline, small beaker
- (b) Round bottom flask, cork, stand, bent glass tube, water, KOH solution, Vaseline, small beaker
- (c) Measuring flask, cork, small glass tube, water, Na_2CO_3 solution, seeds, thread, Vaseline, small beaker
- (d) Flat bottom flask, dry seeds, small glass tube, KOH solution, Vaseline, stand, beaker

Q28. In cockroach, spiracles help in –

- (a) Circulation
- (b) Excretion
- (c) Respiration
- (d) Locomotion

Q29. Students A, B, and C were given five raisins each of equal weight. The raisins were soaked in distilled water at room temperature. A removed the raisins after 20 minutes, B after 2 hours and C after 40 minutes. If P_A , P_B , & P_C denote the percentage absorption of water obtained by student A, B & C respectively then –

- (a) $P_A > P_B > P_C$
- (b) $P_A < P_B < P_C$

(c) $P_A < P_B > P_C$

(d) $P_A = P_B = P_C$

Q30. The path of a ray of light passing through a rectangular glass slab was traced and angles measured. Which one out of the following is a correct representation of an angle of incidence (i), angle of refraction (r) and the angle of emergence (e) as shown in diagram.

