



SET – 7

I. CHOOSE THE CORRECT ANSWER

30 X 1= 30

- A solution in which no more solute can be dissolved in a definite amount of solvent at a given temperature is called ____
(a) Saturated solution (b) Un saturated solution (c) Super saturated solution (d) Dilute solution
- The refractive index of four substances A, B, C and D are 1.31, 1.43, 1.33, 2.4 respectively. The speed of light is maximum in
(a) A (b) B (c) C (d) D
- Where should an object be placed so that a real and inverted image of same size is obtained by a convex lens?
(a) f (b) $2f$ (c) infinity (d) between f and $2f$
- A small bulb is placed at the principal focus of a convex lens. When the bulb is switched on, the lens will produce
(a) a convergent beam of light (b) a divergent beam of light
(c) a parallel beam of light (d) a coloured beam of light
- Magnification of a convex lens is _____
(a) Positive (b) negative (c) either positive or negative (d) zero
- Newton's III law is applicable for _____
(a) for a body is at rest (b) for a body in motion
(c) both a & b (d) only for bodies with equal masses
- Plotting a graph for momentum on the X-axis and time on Y-axis, slope of momentum- time graph gives
(a) Impulsive force (b) Acceleration (c) Force (d) Rate of force
- To project the rockets which of the following principle(s) is / (are) required?
(a) Newton's third law of motion (b) Newton's law of gravitation
(c) law of conservation of linear momentum (d) both a and c
- Temperature is the average of the molecules of a substance _____
(a) difference in K.E and P.E (b) sum of P.E and K.E
(c) difference in T.E and P.E (d) difference in K.E and T.E
- The number of periods and groups in the periodic table are _____
a) 6, 16 (b) 7, 17 (c) 8, 18 (d) 7, 18
- Which of the following have inert gases 2 electrons in the outermost shell _____
a) He (b) Ne (c) Ar (d) Kr
- The number of components in a binary solution is _____
a) 2 (b) 3 (c) 4 (d) 5
- Which of the following is the universal solvent?
a) Acetone (b) Benzene (c) Water (d) Alcohol
- When pressure is increased at constant temperature the solubility of gases in liquid _____
a) No change (b) increases (c) decreases (d) no reaction
- Powdered CaCO_3 reacts more rapidly than flaky CaCO_3 because of
(a) large surface area (b) high pressure (c) high concentration (d) high temperature
- In leech locomotion is performed by
a) Anterior sucker (b) Posterior sucker (c) Setae (d) None of the above
- The segments of leech are known as
a) Metameres (somites) (b) Proglottids (c) Strobila (d) All the above

18. A patient with blood group **O** was injured in an accident and has blood loss. Which blood group the doctor should effectively use for transfusion in this condition?
- a) O group b) AB group c) A or B group d) all blood group
19. The neurons which carries impulse from the central nervous system to the muscle fibre.
- (a) afferent neurons (b) association neuron (c) efferent neuron (d) unipolar neuron
20. Which one of the following hormones is naturally not found in plants:
- a) 2, 4-D b) GA3 c) Gibberellin d) IAA
21. Which one of the following is an IUCD?
- a) Copper – T b) Oral pills c) Diaphragm d) Tubectomy
22. 9 : 3 : 3 : 1 ratio is due to
- a) Segregation b) Crossing over c) Independent assortment d) Recessiveness
23. Where does alcohol effect immediately after drinking?
- a) eyes b) auditory region c) liver d) central nervous system
24. Which of the following statement is wrong with respect to wind energy
- a) wind energy is a renewable energy
b) the blades of wind mill are operated with the help of electric motor
c) production of wind energy is pollution free
d) usage of wind energy can reduce the consumption of fossil fuels.
25. Site for processing of vision, hearing, memory, speech, intelligence and thought is
- (a) kidney (b) ear (c) brain (d) lungs
26. In reflex action, the reflex arc is formed by
- (a) brain, spinal cord, muscle (b) receptor, muscle, spinal cord
(c) muscle, receptor, brain (d) receptor, spinal cord, muscle
27. Vomiting centre is located in
- (a) medulla oblongata (b) stomach (c) cerebrum (d) hypothalamus
28. Soil erosion is more where there is
- a) no rain fall b) low rainfall c) rain fall is high d) none of these
29. Global warming will cause
- a) raise in level of oceans b) melting of glaciers c) sinking of islands d) all of these
30. What are the steps will you adopt for better waste management?
- a) reduce the amount of waste formed b) reuse the waste c) recycle the waste d) all of the above
- II. ANSWER THE FOLLOWING (any 10) 10X2=20**
31. Give an example each
- i) Gas in liquid ii) solid in liquid iii) solid in solid iv) gas in gas
32. What is aqueous and non-aqueous solution? Give an example.
33. Define Volume percentage
34. The aquatic animals live more in cold region Why?
35. Define stimulus.
36. What are the structures involved in the protection of brain?
37. Give an example for conditioned reflexes.
38. Which acts as a link between the nervous system and endocrine system?
39. Define reflex arc.
40. What will happen if trees are cut down?
41. What would happen if the habitat of wild animals is disturbed?
42. What are the agents of soil erosion?
43. Why fossil fuels are to be conserved?
- *****