



V.M.G.R.R SRI SARADA SAKTHI MAT. HR. SEC. SCHOOL
 STD: X SCIENCE REVISION TEST

MARKS: 50

SET - 7

I. CHOOSE THE CORRECT ANSWER

30 X 1 = 30

- Metals are _____
 a) Electro positive b) Electronegative c) Both a & b d) neither a nor b
- The chemical formula of sodium meta aluminate is _____
 a) NaAlO_2 b) Na_2AlO_2 c) NaAl_2O_2 d) $\text{Na}_2\text{Al}_2\text{O}_3$
- Earthquake produces _____
 a) Ultrasound b) Infrasound c) Audible sound d) None
- The organic acid present in vinegar is _____ acid.
 a) Methanoic b) Ethanoic c) Propanoic d) Butanoic
- 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

16. Kreb's cycle takes place in
 a) chloroplast b) mitochondrial matrix c) stomata d) inner mitochondrial membrane
17. Pharyngeal ganglion in leech is a part of
 a) Excretory system b) Nervous system c) Reproductive system d) Respiratory system
18. The wall of human heart is made of
 a) Endocardium b) Epicardium c) Myocardium d) All of the above
19. Site for processing of vision, hearing, memory, speech, intelligence and thought is
 (a) kidney (b) ear (c) brain (d) lungs
20. 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
21. The hormone which has positive effect on apical dominance is:
 a) Cytokinin b) Auxin c) Gibberellin d) Ethylene
22. Anemophilous flowers have _____ .
 a) Sessile stigma b) Small smooth stigma c) Colored flower d) Large feathery stigma
23. Male gametes in angiosperms are formed by the division of _____ .
 a) Generative cell b) Vegetative cell c) Microspore mother cell d) Microspore
24. The region of the chromosome where the spindle fibres get attached during cell division
 a) Chromomere b) Centrosome c) Centromere d) Chromonema
25. Paleontologists deal with
 a. Embryological evidences b. Fossil evidences
 c. Vestigial organ evidences d. All the above
26. rDNA is a
 a. vector DNA b. circular DNA
 c. recombinant of vector DNA and desired DNA d. satellite DNA
27. DNA fingerprinting is based on the principle of identifying ----- sequences of DNA
 a. single stranded b. mutated c. polymorphic d. repetitive
28. Common energy source in village is
 a) electricity b) coal c) biogas d) wood and animal dung
29. Green house effect refers to
 a) cooling of earth b) trapping of UV rays c) cultivation of plants d) warming of earth

II. ANSWER IN DETAIL**(3X7=21)**

30. a) Write notes on (i) saturated solution (ii) unsaturated solution.
 b) 3.5 litres of ethanol is present in 15 litres of aqueous solution of ethanol. Calculate volume percent of ethanol solution. **OR**
 (a) What happens when $MgSO_4 \cdot 7H_2O$ is heated? Write the appropriate equation.
 (b) Define solubility.
 (c) In what way hygroscopic substances differ from deliquescent substances.
31. With a neat labelled diagram explain the structure of a neuron. **OR**
 Illustrate the structure and functions of brain.
32. How does rainwater harvesting structures recharge ground water? **OR**
 i. How will you prevent soil erosion?
 ii. Enumerate the importance of forest.
