



V.M.G.R.SRRI SARADA SAKTHI MAT. HR. SEC. SCHOOL

STD: X

SCIENCE REVISION TEST

MARKS: 50

SET - 6

I. CHOOSE THE CORRECT ANSWER

30 X 1 = 30

- The process of coating the surface of metal with a thin layer of zinc is called _____.
(a) painting (b) thinning (c) galvanization (d) electroplating
- Which of the following have inert gases 2 electrons in the outermost shell
a) He (b) Ne (c) Ar (d) Kr
- Which of the following is the universal solvent?
a) Acetone (b) Benzene (c) Water (d) Alcohol
- The pH of a solution is 3. Its $[OH^-]$ concentration is
(a) $1 \times 10^{-3} M$ (b) 3M (c) $1 \times 10^{-11} M$ (d) 11M
- Rectified spirit is an aqueous solution which contains ___ ethanol
(a) 95.5% (b) 75.5% (c) 55.5% (d) 45.5%
- Which of the following are used as anaesthetics?
a) Carboxylic acids (b) Ethers (c) Esters (d) Aldehydes
- If V_B, V_G, V_R be the velocity of blue, green and red light respectively in a glass prism, then which of the following statement gives the correct relation?
a) $V_B = V_G = V_R$ (b) $V_B > V_G > V_R$ (c) $V_B < V_G < V_R$ (d) $V_B < V_G > V_R$
- If a substance is heated or cooled, the linear expansion occurs along the axis of
a) X or -X (b) Y or -Y (c) both (a) & (b) (d) (a) or (b)
- Power of a lens is -4D, then its focal length is
(a) 4m (b) -40m (c) -0.25m (d) -2.5m
- A convex lens forms a real, diminished point-sized image at focus. Then the position of the object is at
a) focus (b) infinity (c) at 2f (d) between f and 2f
- In which of the following sports is the turning of the effect of force used
a) swimming (b) tennis (c) cycling (d) hockey
- One kilogram force is equal to
(a) 9.8 dyne (b) $9.8 \times 10^4 N$ (c) $98 \times 10^4 dyne$ (d) 980 dyne
- The value of universal gas constant
(a) $3.81 \text{ mol}^{-1} \text{ K}^{-1}$ (b) $8.03 \text{ mol}^{-1} \text{ K}^{-1}$ (c) $1.38 \text{ mol}^{-1} \text{ K}^{-1}$ (d) $8.31 \text{ mol}^{-1} \text{ K}^{-1}$
- In a simple circuit, why does the bulb glow when you close the switch?
a) The switch produces electricity (b) Closing the switch completes the circuit.
c) Closing the switch breaks the circuit. (d) The bulb is getting charged.
- The frequency, which is audible to the human ear is
(a) 50kHz (b) 20kHz (c) 15000kHz (d) 10000kHz
- Oxygen is produced at what point during photosynthesis?
a) when ATP is converted to ADP (b) when CO_2 is fixed
c) when H_2O is splitted (d) All of these
- Pharyngeal ganglion in leech is a part of
a) Excretory system (b) Nervous system (c) Reproductive system (d) Respiratory system

18. The animals which give birth to young ones are
 a) Oviparous b) Viviparous c) Ovoviviparous d) All the above
19. During transpiration there is loss of
 a) carbon dioxide b) oxygen c) water d) none of the above
20. Root hairs are
 a) cortical cell b) projection of epidermal cell c) unicellular d) both b and c
21. Avena coleoptile test was conducted by
 a) Darwin b) N. Smit c) Paal d) F.W. Went
22. Estrogen is secreted by
 a) Anterior pituitary b) Primary follicle c) Graffian follicle d) Corpus luteum
23. The region of the chromosome where the spindle fibres get attached during cell division
 a) Chromomere b) Centrosome c) Centromere d) Chromonema
24. Which method of crop improvement can be practised by a farmer if he is inexperienced?
 a. clonal selection b. mass selection c. pureline selection d. hybridisation
25. Polyphagia is a condition seen in
 a) Obesity b) Diabetes mellitus c) Diabetes insipidus d) AIDS
26. Global warming will cause
 a) raise in level of oceans b) melting of glaciers c) sinking of islands d) all of these
27. Which is the sequence of correct blood flow
 a) ventricle - atrium - vein - arteries b) atrium - ventricle - veins - arteries
 c) atrium - ventricle - arteries - vein d) ventricles - vein - atrium - arteries
28. Water which is absorbed by roots is transported to aerial parts of the plant through
 a) cortex b) epidermis c) phloem d) xylem
29. Which type of cancer affects lymph nodes and spleen?
 a) Carcinoma b) Sarcoma c) Leukemia d) Lymphoma
30. Polyphagia is a condition seen in
 a) Obesity b) Diabetes mellitus c) Diabetes insipidus d) AIDS

II. ANSWER THE FOLLOWING (any 10)

10X2=20

31. Name the simplest ketone and give its structural formula.
32. Classify the following compounds based on the pattern of carbon chain and give their structural formula: (i) Propane (ii) Benzene (iii) Cyclobutane (iv) Furan
33. How is ethanoic acid prepared from ethanol? Give the chemical equation.
34. What causes the opening and closing of guard cells of stomata during transpiration?
35. Why is the circulation in man referred to as double circulation?
36. What is the importance of valves in the heart?
37. Who discovered Rh factor? Why was it named so?
38. How are arteries and veins structurally different from one another?
39. What are psychotropic drugs ?
40. Mention the diseases caused by tobacco smoke.
41. What are the contributing factors for Obesity?
42. What is adult onset diabetes?
43. What is metastasis?
