



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

STD: X

SCIENCE REVISION TEST

MARKS: 50

SET - 1

I.CHOOSE THE CORRECT ANSWER

30 X 1= 30

- A 25% alcohol solution means _____
 (a) 25 ml alcohol in 100 ml of water (b) 25 ml alcohol in 25 ml of water
 (c) 25 ml alcohol in 75 ml of water (d) 75 ml alcohol in 25 ml of water
- Deliquescence is due to _____
 (a) Strong affinity to water (b) Less affinity to water
 (c) Strong hatred to water (d) Inertness to water
- Which of the following is hygroscopic in nature?
 (a) ferric chloride (b) copper sulphate Penta hydrate
 (c) silica gel (d) none of the above
- $H_2(g) + Cl(g) \rightarrow 2HCl(g)$ is a _____
 (a) Decomposition Reaction (b) Combination Reaction
 (c) Single Displacement Reaction (d) Double Displacement
 Reaction
- 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
13. 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
14. In the Given diagram, the possible direction of heat energy transformation is _____
 (a) $A \leftarrow B$, $A \leftarrow C$, $B \leftarrow C$ (b) $A \rightarrow B$, $A \rightarrow C$, $B \rightarrow C$
 (c) $A \rightarrow B$, $A \leftarrow C$, $B \rightarrow C$ (d) $A \leftarrow B$, $A \rightarrow C$, $B \leftarrow C$
15. SI unit of resistance is _____
 (a) mho (b) joule (c) ohm (d) ohm meter
16. Casparian strips are present in the _____ of the root.
 a) Cortex b) pith c) pericycle d) endodermis
17. Pharyngeal ganglion in leech is a part of
 a) Excretory system b) Nervous system c) Reproductive system d) Respiratory system
18. Bipolar neurons are found in
 (a) retina of eye (b) cerebral cortex (c) embryo (d) respiratory epithelium
19. Site for processing of vision, hearing, memory, speech, intelligence and thought is
 (a) kidney (b) ear (c) brain (d) lungs
20. Which one is referred as "Master Gland"?
 a) Pineal gland b) Pituitary gland c) Thyroid gland d) Adrenal gland
21. Anemophilous flowers have _____.
 a) Sessile stigma b) Small smooth stigma c) Colored flower d) Large feathery stigma
22. The loss of one or more chromosome in a ploidy is called _____.
 a) Tetraploidy b) Aneuploidy c) Euploidy d) polyploidy
23. Biogenetic law states that _____
 a. Ontogeny and phylogeny go together b. Ontogeny recapitulates phylogeny
 c. Phylogeny recapitulates ontogeny d. There is no relationship between phylogeny and ontogeny
24. DNA fingerprinting is based on the principle of identifying ----- sequences of DNA
 a. single stranded b. mutated c. polymorphic d. repetitive
25. Organisms with modified endogenous gene or a foreign gene are also known as
 (a) transgenic organisms (b) genetically modified (c) mutated (d) both a and b
26. Tobacco consumption is known to stimulate secretion of adrenaline. The component causing this could be



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SET - 2

I.CHOOSE THE CORRECT ANSWER

30 X 1= 30

1. Inertia of a body depends on
 (a) weight of the object (b) acceleration due to gravity of the planet
 (c) mass of the object (d) Both a & b
2. 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
3. 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) and (b) (d) (a) or (b)
4. Kilowatt hour is the unit of _____
 (a) resistivity (b) conductivity (c) electrical energy (d) electrical power
5. If a sound wave travels with a frequency of 1.25×10^4 Hz 344 ms^{-1} , the wavelength will be _____
 (a) 27.52 m (b) 275.2 m (c) 0.02752 m (d) 2.752 m
6. Gamma radiations are dangerous because
 (a) it affects eyes & bones (b) it affects tissues
 (c) it produces genetic disorder (d) it produces enormous amount of heat
7. The volume occupied by 4.4 g of CO_2 at S.T.P
 (a) 22.4 litre (b) 2.24 litre (c) 0.24 litre (d) 0.1 litre
8. Which of the following have inert gases 2 electrons in the outermost shell _____
 (a) He (b) Ne (c) Ar (d) Kr
9. Deliquescence is due to _____
 (a) Strong affinity to water (b) Less affinity to water
 (c) Strong hatred to water (d) Inertness to water
10. 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
11. TFM in soaps represents content in soap
 (a) mineral (b) vitamin (c) fatty acid (d) carbohydrate
12. In the nucleus of ${}_{20}\text{Ca}^{40}$, there are
 (a) 20 protons & 20 neutrons (b) 20 protons & 40 electrons

- (c) 20 protons & 40 neutrons (d) 40 protons & 20 electrons
13. A 25% alcohol solution means _____
 (a) 25 ml alcohol in 100 ml of water (b) 25 ml alcohol in 25 ml of water
 (c) 25 ml alcohol in 75 ml of water (d) 75 ml alcohol in 25 ml of water
14. Man-made radioactivity is also known as _____
 (a) Induced radioactivity (b) Spontaneous radioactivity
 (c) Artificial radioactivity (d) a & c
15. In which of the following, no change in mass number of the daughter nuclei takes place (i) α decay, ii) β decay, iii) γ decay, iv) neutron decay
 (a) (i) is correct (b) (ii) and (iii) are correct
 (c) (i) & (iv) are correct (d) (ii) & (iv) are correct
16. The endarch condition is the characteristic feature of
 a) root b) stem c) leaves d) flower
17. The animals which give birth to young ones are
 a) Oviparous b) Viviparous c) Ovoviviparous d) All the above
18. The brain of leech lies above the
 a) Mouth b) Buccal Cavity c) Pharynx d) Crop
20. 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
21. 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
22. Which organ acts as both exocrine gland as well as endocrine gland
 a) Pancreas b) Kidney c) Liver d) Lungs
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 number of chromosomes found in human beings are _____.
 a) 22 pairs of autosomes and 1 pair of allosomes. b) 22 autosomes and 1 allosome
 c) 46 autosomes d) 46 pairs autosomes and 1 pair of allosomes.
25. The 'use and disuse theory' was proposed by _____.
 a. Charles Darwin b. Ernst Haeckel c. Jean Baptiste Lamarck
 d. Gregor Mendel
26. We can cut the DNA with the help of
 a. scissors b. restriction endonucleases c. knife d. RNAase
27. rDNA is a
 a. vector DNA b. circular DNA c. recombinant of vector DNA and desired DNA
 d. satellite DNA

28. Which type of cancer affects lymph nodes and spleen?
 a) Carcinoma b) Sarcoma c) Leukemia d) Lymphoma
29. The gas released from vehicles exhaust are i. carbon monoxide ii. Sulphur dioxide iii. Oxides of nitrogen
 a) i and ii b) i and iii c) ii and iii d) i, ii and iii
30. Soil erosion can be prevented by
 a) deforestation b) afforestation c) over growing d) removal of vegetation

II. ANSWER THE FOLLOWING (ANY 10)**10X2=20**

31. State Snell's law.
32. Draw a ray diagram to show the image formed by a convex lens when the object is placed between F and 2F.
33. Define dispersion of light
34. State Rayleigh's law of scattering.
35. Why does the sky appear in blue colour?
36. A is a silvery white metal. A combines with O₂ to form B at 800°C, the alloy of A is used in making the aircraft. Find A and B.
37. What is rust? Give the equation for formation of rust.
38. State two conditions necessary for rusting of iron.
39. Name the Secondary sex organs in male .
38. Define triple fusion .
39. Identify the parts A, B, C and D .
40. Write the characteristics of insect pollinated flowers .
41. What is colostrum? How is milk production hormonally regulated?


