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STD: X

SCIENCE REVISION TEST

MARKS: 50

SET - 2

I. CHOOSE THE CORRECT ANSWER

30 X 1 = 30

- 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
- 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
- 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)
- Kilowatt hour is the unit of _____
(a) resistivity (b) conductivity (c) electrical energy (d) electrical power
- 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
- 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
- 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
- Which of the following have inert gases 2 electrons in the outermost shell _____
(a) He (b) Ne (c) Ar (d) Kr
- Deliquescence is due to _____
(a) Strong affinity to water (b) Less affinity to water
(c) Strong hatred to water (d) Inertness to water
- 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
- TFM in soaps represents content in soap
(a) mineral (b) vitamin (c) fatty acid (d) carbohydrate
- 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
- 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
- Man-made radioactivity is also known as _____
(a) Induced radioactivity (b) Spontaneous radioactivity (c) Artificial radioactivity (d) a & c
- 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?

