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STD: X

SCIENCE REVISION TEST SET – 2

MARKS: 50

I.CHOOSE THE CORRECT ANSWER**29X1=29**

- The SI unit of power of lens is _____
 a) metre b) Dioptre c) Second d) ampere
- The spectral line having frequency equal to the incident ray frequency is called _____
 a) Raman line b) Stokes line c) Antistokes line d) Rayleigh line
- 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 $1.25 \times 10^4 \text{ Hz}$ 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
- The xylem and phloem arranged side by side on same radius is called _____
 a) radial b) amphivasal c) conjoint d) None of these
- Which is formed during anaerobic respiration
 a) Carbohydrate b) Ethyl alcohol c) Acetyl CoA d) Pyruvate
- The segments of leech are known as
 a) Metameres (somites) b) Proglottids c) Strobila d) All the above
- Pharyngeal ganglion in leech is a part of

- a) Excretory system b) Nervous system c) Reproductive system d) Respiratory system
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. 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
22. 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
23. The hormone which has positive effect on apical dominance is:
- a) Cytokinin b) Auxin c) Gibberellin d) Ethylene
24. Male gametes in angiosperms are formed by the division of _____ .
- a) Generative cell b) Vegetative cell c) Microspore mother cell d) Microspore
25. In metacentric chromosome , the position of centromere is
- a) the proximal end b) distal end c) the centre d) near the end
26. The best way of direct dating fossils of recent origin is by
- a. Radio-carbon method b. Uranium lead method c. Potassium-argon method d. Both(a) and (c)
27. Himgiri developed by hybridisation and selection for disease resistance against rust pathogens is a variety of _____.
- a. chilli b. maize c. sugarcane d. wheat
28. Cancer of the epithelial cells is called
- a) Leukemia b) Sarcoma c) Carcinoma d) Lipoma
29. Global warming will cause
- a) raise in level of oceans b) melting of glaciers c) sinking of islands d) all of these

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

30. a) List any five properties of light.
b) Define snell's law

OR

A) Explain smelting process.

31. a) Differentiate the eye defects: Myopia and Hypermetropia.
b) What is power of accommodation of eye?

OR

- (a) State the reason for addition of caustic alkali to bauxite ore during purification of bauxite.
(b) Along with cryolite and alumina, another substance is added to the electrolyte mixture. Name the substance and give one reason for the addition.
(c) The electronic configuration of metal A is 2, 8, 18, 1.

The metal A when exposed to air and moisture forms B a green layered compound. A with con. H₂SO₄ forms C and D along with water. D is a gaseous compound. Find A, B, C and D.

32. i. With a neat labelled diagram describe the parts of a typical angiospermic ovule.

OR

ii. Write the events involved in the sexual reproduction of a flowering plant.

- a. Discuss the first event and write the types.
b. Mention the advantages and the disadvantages of that event.

33. i. What are the phases of menstrual cycle? Indicate the changes in the ovary and uterus.

OR

- ii. a. What is colostrum? How is milk production hormonally regulated?
b. How can menstrual hygiene be maintained during menstrual days?
c. Identify the parts A, B, C and D

