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STD: X

SCIENCE REVISION TEST

MARKS: 50

SET - 5

I.CHOOSE THE CORRECT ANSWER

29X1=29

- _____ is the material used to make the filament in bulbs.
a) Cadmium b) Tungsten c) Mercury d) None
- When a sound wave travels through air, the air particles
a) vibrate along the direction of the wave motion
b) vibrate but not in any fixed direction
c) vibrate perpendicular to the direction of the wave motion
d) do not vibrate
- Velocity of sound in a gaseous medium is 330 m s^{-1} . If the pressure is increased by 4 times without causing a change in the temperature, the velocity of sound in the gas is
a) 330 ms^{-1} b) 660 ms^{-1} c) 156 ms^{-1} d) 990 ms^{-1}
- The frequency, which is audible to the human ear is
a) 50 kHz b) 20 kHz c) 15000 kHz d) 10000 kHz
- The velocity of sound in air at a particular temperature is 330 m s^{-1} . What will be its value when temperature is doubled and the pressure is halved?
a) 330 ms^{-1} b) 165 ms^{-1} c) $330 \times \sqrt{2} \text{ ms}^{-1}$ d) $320 / \sqrt{2} \text{ ms}^{-1}$
- If a sound wave travels with a frequency of $1.25 \times 10^4 \text{ Hz}$ at 344 m s^{-1} , the wavelength will be
a) 27.52 m b) 275.2 m c) 0.02752 m d) 2.752 m
- The amount of heat energy required to rise the temperature of 1 g of water through 1°C is
a) One calorie b) One joule c) One kelvin d) One Kilocalorie
- According to Joule's heating effect, the law of current is _____
a) $I = H^2$ b) $H = I$ c) $H = I^2$ d) Both a & c
- _____ aprons are used to protect us from gamma radiations
a. Lead oxide b. Iron c. Lead d. Aluminium
- Which of the following has the smallest mass?
a) 6.023×10^{23} atoms of He b) 1 atom of He c) 2 g of He d) 1 mole atoms of He
- Which of the following is a triatomic molecule?
a) Glucose (b) Helium (c) Carbon dioxide (d) Hydrogen
- 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
- _____ group contains the member of halogen family.
(a) 17th (b) 15th (c) 18th (d) 16th
- _____ is a relative periodic property
a) atomic radii (b) ionic radii (c) electron affinity (d) electronegativity
- Chemical formula of frustis _____.
a) $\text{FeO} \cdot x\text{H}_2\text{O}$ (b) $\text{FeO}_4 \cdot x\text{H}_2\text{O}$ (c) $\text{Fe}_2\text{O}_3 \cdot x\text{H}_2\text{O}$ (d) FeO
- Casparian strips are present in the _____ of the root.
a) Cortex b) pith c) pericycle d) endodermis
- The animals which give birth to young ones are
a) Oviparous b) Viviparous c) Ovoviviparous d) All the above

18. Which of the following process requires energy?
 a) active transport b) diffusion c) osmosis d) all of them
19. The wall of human heart is made of
 a) Endocardium b) Epicardium c) Myocardium d) All of the above
20. Bipolar neurons are found in
 (a) retina of eye (b) cerebral cortex (c) embryo (d) respiratory epithelium
21. Site for processing of vision, hearing, memory, speech, intelligence and thought is
 (a) kidney (b) ear (c) brain (d) lungs
22. LH is secreted by
 a) Adrenal gland b) Thyroid gland c) Anterior pituitary d) Hypothalamus.
23. Anemophilous flowers have _____ .
 a) Sessile stigma b) Small smooth stigma c) Colored flower d) Large feathery stigma
24. Male gametes in angiosperms are formed by the division of _____ .
 a) Generative cell b) Vegetative cell c) Microspore mother cell d) Microspore
25. The _____ units form the backbone of the DNA.
 a) 5 carbon sugar b) Phosphate c) Nitrogenous bases d) Sugar phosphate
26. 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
27. We can cut the DNA with the help of
 a. scissors b. restriction endonucleases c. knife d. RNAase
28. Metastasis is associated with
 a) Malignant tumour b) Benign tumour c) Both (a) and (b) d) Crown gall tumour
29. Polyphagia is a condition seen in
 a) Obesity b) Diabetes mellitus c) Diabetes insipidus d) AIDS

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

30. a) What is meant by electric current?
 b) Name and define its unit.
 c) Which instrument is used to measure the electric current? How should it be connected in a circuit?

OR

- a) State Joule's law of heating.
 b) An alloy of nickel and chromium is used as the heating element. Why?
 c) How does a fuse wire protect electrical appliances?

31. a. How does locomotion take place in leech?
 b. Explain the male reproductive system of rabbit with a labelled diagram.

OR

- a. Why are the rings of cartilages found in trachea of rabbit?
 b. List out the parasitic adaptations in leech.

32. a. Describe mutation breeding with an example.
 b. Biofortification may help in removing hidden hunger. How?

OR

- a. With a neat labelled diagram explain the techniques involved in gene cloning.
 b. Discuss the importance of biotechnology in the field of medicine.
