

Class : 8

Register  
Number**SECOND MID TERM TEST - 2024****SCIENCE**

[Max. Marks : 50]

Time Allowed : 1.30 Hours]

**PART - I**

10x1=10

**I. Choose the correct answer.**

1. The electrification of two different bodies on rubbing is because of the transfer of  
 (a) Neutrons (b) Protons  
 (c) Electrons (d) Protons and Neutrons
2. Fuse is -----  
 (a) a Switch (b) a wire with low resistance  
 (c) a wire with high resistance  (d) a protective device for breaking an electric circuit
3. The amplitude of the sound wave decides its -----  
 (a) Speed (b) Pitch  (c) loudness (d) Frequency
4. Find the odd one out.  
 (a) Harmonium (b) Flute (c) Nadaswaram  (d) Violin
5. The range of audible frequency for the human ear is  
 (a) 2 Hz to 2000 Hz (b) 20 Hz to 2000 Hz  
 (c) 20 Hz to 20000 Hz (d) 200 Hz to 20000 Hz
6. Cathode rays are made up of  
 (a) Neutral particles (b) Positively charged particles  
 (c) Negatively charged particles (d) None of the above
7. In water, hydrogen and oxygen are combined in the ratio of ----- by mass.  
 (a) 1 : 8 (b) 8 : 1 (c) 2 : 3 (d) 1 : 3
8. ----- Joints an immovable.  
 (a) Shoulder and arm (b) Knee and Joint  
 (c) upper jaw and skull (d) Lower jaw and upper jaw
9. Cockroach moves with the help of its -----  
 (a) Leg (b) Bone (c) Muscular foot  (d) Whole body
10. Which one of the following organisms lack muscles and skeleton for movement?  
 (a) Dog  (b) Snail (c) Earthworm (d) Human being

**PART - II****II. Answer the following: (Any 10)**

10x2=20

11. What is Earthing? *Connecting electric circuit to ground.***12. Fill in the Blanks.**

- a) The body which has lost electrons becomes *Positive*
- b) ----- is a device that protects building from lightning Strike.

*Lightning arrester*

CH/M/8/Sci/1

13. What is Electroplating? *Depositing layer of metal over other metal*

14. Match the following:

- i) Ultrasonics - Frequency below 20Hz *3*  
 ii) Speed of sound in air - Needs material medium *4*  
 iii) Infrasonics -  $330 \text{ ms}^{-1}$  *2*  
 iv) Sound propagation - Frequency more than 20000 Hz *1*

15. What are the Hazards of noise Pollution? *stress, nervousness, headache.*

16. How is Sound Produced? *When object is vibrated.*

17. Write the properties of Cathode Rays. *travel in straight lines; deflected by electric & magnetic field*

18. Write the names of the following compounds.

- a) *Carbon monoxide*  $\text{CO}$  b) *Nitrous oxide*  $\text{N}_2\text{O}$  c) *Nitrogen dioxide*  $\text{NO}_2$  d) *Phosphorous pentoxide*  $\text{P}_2\text{O}_5$

19. Fill in the blanks.

- a) *Atom* is the smallest Particle of an element.  
 b) *Electron* is a negatively charged particle (*Electron / Proton*)

20. State True or False. If False, correct the statement.

- a) There are 12 Pairs of Ribs in Human body.   
 b) Cardiac muscle is a voluntary muscle.

21. What is Cranium?

22. Differentiate Axial and Appendicular Skeleton.

### PART - III

IV. Answer the Following Question in Detail.

4x5=20

23. a) Explain with Picture how Gold leaf Electroscope Works?

(OR)

b) Explain Series and Parallel Circuit.

24. a) Describe an Experiment to show that sound cannot travel through Vacuum?

(OR)

b) Describe the Structure and Function of the Human Ear?

25. a) Find the Valency of the element which is underlined in the following formula.

a) NaCl = 1      b) CO<sub>2</sub> = 4      c) Al(PO<sub>4</sub>) = 3

d) Ba(NO<sub>3</sub>)<sub>2</sub> = 2      e) CaCl<sub>2</sub> = 2. (OR)

b) Write the Chemical formula for the following compounds.

- a) Aluminium Sulphate *Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>*      b) Silver Nitrate *AgNO<sub>3</sub>*  
 c) Magnesium Oxide *MgO*      d) Barium Chloride *BaCl<sub>2</sub>*

26. a) What are the Functions of Skeleton in Human Body?

(OR)

b) Name the different types of Joints? Give one example for each type.