

## SECOND MIDTERM EXAM - 2022

CLASS : 9

TIME : 1.30 HRS

### SCIENCE

MARKS : 50

**I. Choose the Correct Answer.** **$8 \times 1 = 8$** 

1. Electric field lines ..... from positive charge and ..... is negative.  
 a) start ; start      b) start ; end      c) end ; start      d) end ; end
2. Resistance of a wire depends on  
 a) temperature      b) geometry      c) nature of material      d) all the above
3. Which one of the following converts electrical energy in the mechanical energy?  
 a) Motor      b) Battery      c) generator      d) switch
4. Number of valence electrons in carbon is .....  
 a) 2      b) 4      c) 3      d) 5
5. ..... compounds have high melting and boiling points  
 a) covalent      b) co ordinate      c) ionic
6. Stomach of human beings mainly digests .....  
 a) Carbohydrate      b) proteins      c) fat      d) sucrose
7. The structural and functional unit of the Kidney is .....  
 a) Villi      b) liver      c) nephron      d) ureter
8. An internal factor responsible for spoilage of food is .....  
 a) wax coating      b) contaminated utesils  
 c) moisture content in food      d) synthetic preservatives.

**II. Answer very briefly : (Any six only)** **$6 \times 2 = 12$** 

9. Define electric current and give its unit.

10. State Fleming's Left hand Rule.

11. Match the following :

1. Electric charge
2. Resistance
3. Magnetic Material
4. Electro magnetic induction

- Iron 3
- Faraday 4
- Ohm 2
- Coulomb 1

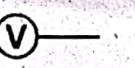
12. NaCl is soluble in CCl<sub>4</sub>, but soluble in water. Give reason.

13. Complete the table given below :

Element	Atomic Number	Electron distribution	Valence electrons
Lithium	3	— 2 + 1 —————	— 1 —————
Oxygen	8	— 2 + 6 —————	— 6 —————

14. Why do we sweat?
15. Name any two naturally occurring toxic substances in food.
16. Differentiate : Kwashiorkar from Marasmus.

**III. Answer Briefly : (any four only)** **$4 \times 4 = 16$** 

17. a)  = ..... *Battery*..... c)  = ..... *bulb*.....
- c)  = ..... *Voltmeter*..... d)  = .....

18. Write the properties of Magnetic lines of force.
19. a) Explain Octet rule. b) Why the noble gases inert in nature?
20. Name the types of teeth present in an adult human being mention the functions of each.
21. What is an adulterant? What are the effects of consuming adulterated food?
22. Draw and label the diagram of an AC generator.

**IV. Answer in detail :** **$2 \times 7 = 14$** 

23. Explain two types of transformers. **(OR)**  
Listdown the differences between Ionic and Covalent compounds.
24. Describe the alimentary canal of man. **(OR)**  
How are vitamins useful to us. Tabulate the sources deficiency disease and symptoms of fat soluble vitamins.