

SECOND MID TERM TEST - 2023

Standard - IX

Time : 1.30 hrs

SCIENCE

Marks: 60

I. Choose the correct answer.

6*1=

- 1) Electric field line _____ from positive charge and _____ is equal
 - 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 to mechanical energy?
 - a) Motor
 - b) Battery
 - c) generator
 - d) hybrid
- 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
 - d) metallic
- 6) Stomach of human beings mainly digests
 - a) Carbohydrate
 - b) proteins
 - c) fat
 - d) sugars
- 7) The structural and function 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 utensils
 - c) moisture content in food
 - d) synthetic preservatives

II. Answer very briefly: (Any six only)

6*2

9) Define electric current and give its unit.

10) State Fleming's Left Hand Rule.

11) Match the following :

- | | |
|-------------------------------|-----------|
| 1. Electric charge | • Iron |
| 2. Resistance | • Faraday |
| 3. Magnetic material | • Ohm |
| 4. Electro magnetic induction | • Coulomb |

12) NaCl is not soluble in CCl_4 , but soluble in water. Give reason.

(2)

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13) Complete the table given below

Element	Atomic Number	Electron distribution	Valence electrons
Lithium	3	_____	_____
Oxygen	8	_____	_____

14) Why do we sweat?

15) Name any two naturally occurring toxic substances in food.

16) Differentiate: Kwashiorkor from Marasmus

.III. Answer briefly:- (Any four only)

4×4=16

17) a) $\text{---|---} =$ b) $\text{---}\otimes\text{---} =$ c) $\text{---}\ominus\text{---} =$ d) $\text{---}\perp\text{---} =$

18) Write the properties of Magnetic lines of force.

19) a) Explain Octet rule

b) Why the noble gases are inert in nature?

20) Name the types of teeth present in 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:-

2×7=14

23) Explain two types of transformers.

[Or]

List down the difference between Ionic and Covalent compounds.

24) Describe the alimentary canal of man.

[Or]

How are vitamins useful to me. Tabulate the sources deficiency disease and symptoms of fat soluble vitamins.

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