

SECOND MID TERM TEST - 2024

Standard - IX

Time : 1.30 hrs

SCIENCE

Marks: 50

Part - I

I. Choose the correct answer:-

9×1=9

- 1) In current electricity; a positive charge refers to _____
 a) presence of electron b) presence of proton
 c) absence of electron d) absence of proton
- 2) Heating effect of current is called _____
 a) Joule heating b) Coulomb heating
 c) Voltage heating d) Ampere heating
- 3) Number of valence electrons in carbon is _____
 a) 2 b) 4 c) 3 d) 5
- 4) Covalent bond is formed by
 a) transfer of electrons b) sharing of electrons
 c) sharing a pair of electrons d) transfer of protons
- 5) Stomach of human beings mainly digests _____
 a) Carbohydrates b) proteins c) fat d) sucrose
- 6) Which one of the following substance is not a constituent of sweat?
 a) Urea b) Protein c) Water d) Salt
- 7) Which of the following is not a part of female reproductive system?
 a) Ovary b) Uterus c) Testes d) Fallopian tube
- 8) Which of the following converts electrical energy into mechanical energy
 a) Motor b) Battery c) Generator d) Switch
- 9) The unit of magnetic flux density is _____
 a) weber b) weber/metre c) weber/metre² d) weber.metre²

Part - II

II. Answer any four of the following questions.

Question number 15 is compulsory:-

4×2=8

- 10) What are electric lines of force?
- 11) List the main parts of an electric motor.
- 12) Correct the wrong statements.
 a) Ionic compounds dissolve in non polar solvents.
 b) Covalent compounds conduct electricity in molten or solution state

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13) What is micturition?

14) Match the following:-

Organ	Elimination
a) Skin	- Urine
b) Lungs	- Sweat
c) Intestine	- Carbondioxide
d) Kidneys	- Undigested food

15) Find the oxidation number of 'Mn' in $MnSO_4$.

Part - III

III. Answer any three of the following questions.

Question number 20 is compulsory:-

3×4=12

- 16) Draw and label the diagram of an AC generation.
- 17) List down any 4 differences between Ionic and Covalent compounds.
- 18) a) Differentiate Excretion and Secretion.
b) Mention any two vital functions of human kidney.
- 19) Name the types of teeth present in an adult human being. Mention the functions of teeth.
- 20) The current flowing through a lamp is 0.2A. If the lamp is switched on for one hour, what is the total electric charge that passes through the lamp?

Part - IV

IV. Answer the following questions:

3×7=21

- 21) i) a) Define electric current and give its unit.
b) Name any two appliances which work under the principle of heating effect of current.
c) List the safety features while handling electricity. [or]
- ii) Explain the principle, construction and working of a DC motor.
- 22) i) a) Write a note on different types of bonds.
b) Name the Noble gases. [or]
- ii) Discuss in brief about the properties of coordinate covalent compounds.
- 23) i) Describe the alimentary Canal of man. [or]
- ii) Explain the structure of human kidney and the steps involved in the formation of urine.
