



KSHATRIYA VIDHYASALAMATRIC. HR. SEC. SCHOOL

Second Mid Term Exam November – 2023

SCIENCE (Lesson – 4,13,20)

Time : 1.30Hours

Marks: 50

Std: IX

Reg.No.:

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I. Choose the correct answers.

[10×1 = 10]

- 1) Resistance of a wire depends on_____.
 a) temperature b) geometry c) nature of material d) all the above
- 2) Electroplating is an example for_____.
 a) heating effect b) chemical effect c) flowing effect d) magnetic effect
- 3) Rubbing of comb with hair_____.
 a) creates electric charge b) transfers electric charge
 c) Both A and B d) None of these
- 4) Number of valence electron in carbon is _____.
 a) 2 b) 4 c) 3 d) 5
- 5) _____ compounds have high melting and boiling points.
 a) Covalent. b) Coordinate. c) Ionic. d) chemical.
- 6) Which of the following is not a part of female reproductive system?
 a) Ovary b) Uterus c) Testes d) Fallopian tube
- 7) The common passage meant for transporting urine and sperms in male is _____.
 a) ureter b) urethra c) vas deferens d) scrotum
- 8) Which one of the following substance is not a constituent of sweat?
 a) Urea b) Protein c) Water d) Salt
- 9) The structural and functional unit of the kidney is _____.
 a) villi b) liver c) nephron d) ureter
- 10) Bile helps in the digestion of _____.
 a) proteins b) sugar c) fats d) carbohydrates

II. Answer one or two sentences. (any SEVEN)

[7 × 2 = 14]

- 11) State Ohm's law.
- 12) i) The direction opposite to the movement of electron is called_____ current.
 ii) The domestic electricity in India is an ac with a frequency of _____ Hz.
- 13) Define electric field.
- 14) Find the oxidation number of the elements in the following compounds.
 a) C in CO₂ b) Mn in MnSO₄
- 15) Explain Octet rule with an example.
- 16) Why are Noble gases inert in nature?
- 17) The opening of the stomach into the intestine is called _____.
- 18) The longest part of alimentary canal is _____.
- 19) Nitric acid in the stomach kills microorganisms in the food.
- 20) During digestion proteins are broken down into amino acids.

III. Answer in brief. (Any THREE)**[3 × 4 = 12]**

- 21) i) What are electric lines of force?
 ii) Name any two appliances which work under the principle of heating effect of current.
- 22) Fill in the following table according to the type of bonds formed in the given molecule.
 CaCl₂, H₂O, CaO, CO, KBr, HCl, CCl₄, HF, CO₂, Al₂Cl₆

Ionic bond	Covalent bond	Coordinate covalent bond

- 23) Name the types of teeth present in an adult human being. Mention the functions of each.
 24) Write about the functions of kidney.

IV. Answer in detail. (Any TWO)**[2 × 7 = 14]**

- 25) a) List the safety features while handling electricity. (4)
 b) The e.m.f of a cell is 1.5 V. What is the energy provided by the cell to drive 0.5 C of charge around the circuit? (3)
- 26) a) List down the differences between Ionic and Covalent compounds.(5)
 b) Complete the table give below (2)

Element	Atomic number	Electron distribution	Valance electrons	Lewis dot structure
Lithium	3			
Boron	5			

- 27) Describe the alimentary canal of man.

Prepared By

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