

## SECOND MID TERM EXAMINATION – NOVEMBER 2024

**STD: 9**

**SCIENCE**

50 MARKS

1: 30 Mts

- 
- I. Choose the correct answer from the following questions. 13
1. The number of electrons in 1 coulomb charge is  
 a)  $6.025 \times 10^{-18}$     b)  $6.025 \times 10^{18}$     c)  $6.025 \times 10^{19}$     d)  $6.025 \times 10^{-18}$
  2. Electroplating is an example for  
 a) Heating effect    b) Chemical effect  
 c) Flowing effect    d) Magnetic effect
  3. Which of the following converts electrical energy in to mechanical energy?  
 a) Battery    b) Generator    c) Motor    d) switch
  4. Resistance of a wire depends on  
 a) Temperature    b) Geometry    c) Nature of material    d) All the above
  5. Transformer works on  
 a) AC only    b) DC only    c) Both AC&DC    d) None
  6. Number of valance electrons in carbon is  
 a) 2    b) 4    c) 3    d) 5
  7. Bond formed between a metal and a non-metal is usually  
 a) Covalent    b) Coordinate    c) Ionic    d) None
  8. Acids turn blue litmus in to  
 a) Blue    b) Yellow    c) White    d) Red
  9. Which of the following is a di-acidic base?  
 a)  $Mg(OH)_2$     b)  $KOH$     c)  $Al(OH)_3$     d)  $NaOH$
  10. Bile helps in the digestion of  
 a) Proteins    b) Fat    c) Sucrose    d) Carbohydrates
  11. Which of the following is not a salivary gland?  
 a) Sublingual    b) Parotid    c) Lachrymal    d) Sub maxillary
  12. Food and Adulteration Act was enforced by the Government of India in the year  
 a) 1964    b) 1950    c) 1963    d) 1954
  13. The sprouting of Onion and Potatoes can be delayed by the process of  
 a) Irradiation    b) Salting    c) Freezing    d) Canning
- TTK-9-SCIEM-1*

II. Answer any FIVE of the following.

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14. State Ohm's law.
15. State Fleming's Right Hand Rule.
16. Define electric field.
17. What is Rule of eight or Octet rule?
18. State any two uses of acids.
19. State four properties of Ionic compounds.
20. What are the uses of Plaster of Paris?
21. Name the different kinds of teeth in human.
22. Why salt is used as preservative in food?

III Answer any FIVE of the following.

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23. Draw and label human female reproductive system.
24. Differentiate Kwashiorkor and Marasmus.
25. What is micturition?
26. Show by diagrammatic representation for the formation of ionic bond in sodium chloride.
27. What is called as the king of chemicals? Write its chemical formula.
28. Draw and label the diagram of AC generator.
29. Differentiate electric motor and generator.
30. Match the following:

|                      |         |
|----------------------|---------|
| Electric current     | ohm     |
| Potential difference | ampere  |
| Resistance           | coulomb |
| Electric current     | volt    |
31. List the safety features while handling electricity.

IV Answer the following in detail.

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32. a) What is a transformer? Explain two types of transformers.

OR

- b) Give the tests to identify Acids and bases.

OR

- c) Draw a neat and labeled diagram of Human digestive system. TTK-9-SCI EM-2