

# SECOND MID TERM TEST - 2024

Standard IX

Reg.No. 

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SCIENCE

Time : 1.30 hrs

Part - I

Marks : 50

10 x 1 = 10

1. Choose the correct answer:

1. Resistance of a wire depends on \_\_\_\_\_.
  - a) Temperature
  - b) Geometry
  - c) Nature of material
  - d) All the above
2. Which of the following converts electrical energy into mechanical energy?
  - a) Motor
  - b) Battery
  - c) Generator
  - d) Switch
3. The unit of magnetic flux density is \_\_\_\_\_.
  - a) Weber
  - b) Weber / Metre
  - c) Weber / Metre<sup>2</sup>
  - d) Weber.Metre<sup>2</sup>
4. Elements with stable electronic configurations have eight electrons in their valence shell. They are \_\_\_\_\_.
  - a) Halogens
  - b) Metals
  - c) Noble gases
  - d) Non-metals
5. The hydrated salt of copper sulphate has \_\_\_\_\_ colour.
  - a) Red
  - b) Blue
  - c) Green
  - d) White
6. The structural and functional unit of the kidney is \_\_\_\_\_.
  - a) Villi
  - b) Liver
  - c) Nephron
  - d) Ureter
7. \_\_\_\_\_ is the largest gland of digestive system.
  - a) Salivary glands
  - b) Liver
  - c) Pancreas
  - d) Stomach
8. The sprouting of onion and the potatoes can be delayed by the process of \_\_\_\_\_.
  - a) Freezing
  - b) Irradiation
  - c) Salting
  - d) Canning
9. Diptheria affects the \_\_\_\_\_.
  - a) Lungs
  - b) Throat
  - c) Blood
  - d) Liver
10. \_\_\_\_\_ is a disease which is totally eliminated from the human population.
  - a) Small Pox
  - b) AIDS
  - c) Cholera
  - d) Typhoid

Part - II

II. Answer any 7 questions. (Q.No.20 is compulsory)

11. Match the following.

7 x 2 = 14

1. Electric charge - Ampere
  2. Electric current - Ohm
  3. Potential difference - Coulomb
  4. Resistance - Volt
12. Can electroplating be possible with alternating current? Give reason.
  13. State Fleming's left hand rule.

14. NaCl is insoluble in carbon tetra chloride, but soluble in water. Give reason.
15. Write any two uses of acids.
16. **True? or False?. If false, correct the statement.**
- Nitric acid in the stomach kills microorganisms in the food.
  - Vitamin C is a water soluble vitamin.
17. Mention any two vital functions of human kidney.
18. **Give expansion for the following.**
- ISI
  - ORS
19. a) Typhoid fever is caused by \_\_\_\_\_.  
b) \_\_\_\_\_ is a vector of viral disease dengue.
20. Calculate the amount of charge that would flow in 2 hours through an element of an electric bulb drawing a current of 2.5 A.

**Part - III****III. Answer any 3 questions. (Q.No.25 is compulsory)****3 x 4 = 12**

21. a) Define electric field.  
b) Name any two appliances which work under the principle of heating effect of current.
22. Write any four properties of magnetic lines of force.
23. What is food adulteration? What are the effects of consuming adulterated food?
24. Differentiate ;
- Excretion and Secretion.
  - Incisors and Canines
25. a) Calculate the oxidation number of Fe in  $\text{FeSO}_4$ .  
b) Write any two applications of Plaster of Paris.

**Part - IV****IV. Answer in detail.****2 x 7 = 14**

26. a) Explain the principle, construction and working of a DC motor.  
(OR)
- i) Draw the ionic bond formation in sodium chloride.
  - ii) Write any four properties of bases.
27. a) Describe the alimentary canal of man.  
(OR)
- i) Suggest the immunization schedule for a new born baby till 12 months of age.
  - ii) Draw the structure of HIV and mark the parts

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