

**T COMMON SECOND MID TERM TEST - 2023****Standard - IX  
SCIENCE**Reg.No. 

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**Time: 1.30 hrs.****Marks:50****PART - I****I. Choose the correct answer:****7×1=7**

1. Rubbing of comb with hair
  - a) creates electric charge
  - b) transfers electric charge
  - c) either (a) or (b)
  - d) neither (a) nor (b)
2. Electroplating is an examples for
  - a) heating effect
  - b) chemical effect
  - c) flowing effect
  - d) magnetic effect
3. Transformer works on
  - a) AC only
  - b) DC only
  - c) both AC and DC
4. Elements with stable electronic configuration have eight electrons in their valence shell. They are \_\_\_\_\_.
  - a) halogens
  - b) metals
  - c) noble gases
  - d) non metals
5. Apple contains malic acid. Orange contains \_\_\_\_\_.
  - a) citric acid
  - b) ascorbic acid
6. Stomach of human being mainly digest \_\_\_\_\_.
  - a) Carbohydrates
  - b) Proteins
  - c) Fat
  - d) Sucrose
7. Structural and functional unit of the kidney is \_\_\_\_\_.
  - a) Villi
  - b) Liver
  - c) Nephron
  - d) Ureter

**PART - II****II. Answer any 5 questions (Qn.No.14 is compulsory)****5×2=10**

8. Define electric current and give its unit.
9. State Fleming's Left Hand Rule.
10. What are the different types of bonds?
11. What are the uses of plaster of paris?
12. Why do we sweat?
13. Mention any two vital functions of human Kidney.
14. If, 25C of charge is determined to pass through a wire of any cross section in 50s. What is the measure of current.

**PART - III****III. Answer any 3 questions (Qn.No.19 is compulsory)****3×4=12**

15. a) What are electric lines of force?  
b) Define electric field?
16. State Faraday's Laws of electromagnetic induction.
17. Write any five uses of salts.
18. Differentiate the following.
  - a) Excretion and secretion
  - b) Incisors and caniners
19. Find the oxidation number of the elements in the following components.
  - a) C in CO<sub>2</sub>
  - b) Mn in MnSO<sub>4</sub>
  - c) N in HNO<sub>3</sub>

**PART - IV****IV. Answer all the questions.****3×7=21**

20. i) a) Electrons move from \_\_\_\_\_ potential to \_\_\_\_\_ potential.  
 b) Match the following:
- |                         |   |                       |
|-------------------------|---|-----------------------|
| 1) Electric charge      | - | a) Ohm                |
| 2) Potential difference | - | b) Ampere             |
| 3) Electric field       | - | c) Coulomb            |
| 4) Resistance           | - | d) Newton per Coulomb |
|                         | - | e) Volt               |
- c) Name any two appliances which work under the principle of heating effect of current.  
 d) Current can product magnetic field (True or False)

**(OR)**

- ii) Explain two types of transformer.  
 21. i) List down the differences between ionic and covalent compounds?

**(OR)**

- ii) a) What is neutralization reaction? Give an example.  
 b) Differentiate hydrate and anhydrous salts with example.  
 22. i) Explain the structure of Kidney and the steps involved in the formation of Urine.

**(OR)**

- ii) a) Name the types of teeth present in an adult human being. Mention the function of each.  
 b) Match :
- |              |   |                |
|--------------|---|----------------|
| 1. Skin      | - | Urine          |
| 2. Lungs     | - | Sweat          |
| 3. Intestine | - | Carbon dioxide |
| 4. Kidneys   | - | Undigestd food |
- c) The Longest part of alimentary canal is \_\_\_\_\_.  
 d) The muscular and sensory organ which helps in mixing the food with saliva is \_\_\_\_\_.

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