

**ICSE EXAMINATION 2026**  
**CHEMISTRY - SCIENCE Paper 2**  
Mock Board Question Paper

**Time allowed: Two Hours**

**Maximum Marks: 80**

**General Instructions:**

1. Answers to this paper must be written on separate answer sheets provided.
2. You are not allowed to write during the first 15 minutes.
3. This paper has two sections: Section I and Section II.
4. Attempt all questions from Section I.
5. Attempt any four questions from Section II.
6. The intended marks for questions/parts are given in square brackets [ ].
7. All working, including rough work, must be clearly shown.

**SECTION I (40 Marks)**

Attempt all questions from this section.

**Question 1** [10 x 1 = 10]

Choose the correct answer for each of the following:

1. The gas evolved when dilute hydrochloric acid reacts with zinc is: (a) Oxygen (b) Hydrogen (c) Chlorine (d) Sulphur dioxide
2. The process of coating iron with zinc is called: (a) Alloying (b) Electroplating (c) Galvanization (d) Vulcanization
3. The valency of sulphate radical ( $\text{SO}_4$ ) is: (a) 1 (b) 2 (c) 3 (d) 4
4. Which of the following is a strong acid? (a) Acetic acid (b) Carbonic acid (c) Hydrochloric acid (d) Formic acid
5. The pH of a neutral solution at 25 °C is: (a) 0 (b) 7 (c) 10 (d) 14

**Question 2** [5]

Fill in the blanks:

1. The formula of ammonium sulphate is \_\_\_\_\_.
2. The common name of calcium oxide is \_\_\_\_\_.
3. The gas that turns lime water milky is \_\_\_\_\_.
4. The process of loss of electrons is called \_\_\_\_\_.
5. Rust is chemically \_\_\_\_\_.

**Question 3** [5]

State whether True or False:

1. All covalent compounds conduct electricity in molten state.
2. Blue litmus turns red in acidic solution.
3. Graphite is a good conductor of electricity.
4. Hydrogen is less reactive than copper.
5. Distillation can be used to obtain pure water from salt solution.

**Question 4** [5]

Match Column A with Column B.

Column A: NaOH,  $\text{CaOCl}_2$ ,  $\text{H}_2\text{SO}_4$ ,  $\text{NH}_4\text{OH}$ , Phenolphthalein

Column B: (a) Bleaching powder preparation (b) Caustic soda (c) Oil of vitriol (d) Reagent for alkalis (e) Turns pink in base

**Question 5** [15]

Answer briefly:

1. Define oxidation and reduction in terms of electron transfer with one example each.

2. Write balanced equations for: (i) Magnesium + Oxygen (ii) Zinc + Dilute sulphuric acid.
3. State two differences between ionic and covalent compounds.
4. Why is concentrated sulphuric acid called a dehydrating agent? Give one example.
5. What is electroplating? Mention two applications.

## SECTION II (40 Marks)

Attempt any four questions from this section.

### Question 6 [10]

- (a) Define acids, bases and salts with one example each.
- (b) What is pH? State pH range for acidic, basic and neutral solutions.
- (c) Explain with equations how NaCl can be converted to (i) NaOH and (ii) HCl gas.

### Question 7 [10]

- (a) Differentiate: (i) Endothermic and exothermic reactions (ii) Combination and decomposition reactions.
- (b) Explain displacement reaction using iron and copper sulphate.
- (c) Write ionic equation for neutralization of HCl by NaOH.

### Question 8 [10]

- (a) What is metallurgy? Name the main steps in extraction of metals from ores.
- (b) Why is aluminium extracted by electrolysis and not by carbon reduction?
- (c) Give reasons: (i) Gold occurs in native state (ii) Zinc is used for galvanization (iii) Alloying improves metal properties.

### Question 9 [10]

- (a) Draw electron dot structures for H<sub>2</sub>O and NH<sub>3</sub>.
- (b) Define valency and oxidation number.
- (c) Calculate molecular mass of (i) CaCO<sub>3</sub> (ii) H<sub>2</sub>SO<sub>4</sub>.

### Question 10 [10]

- (a) Name and one use each of: ethanol, ethanoic acid, methane, propanone.
- (b) What is a homologous series? State four characteristics.
- (c) Differentiate saturated and unsaturated hydrocarbons with one example each.

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--- End of Question Paper ---