

# **ICSE Class 10 Chemistry – Mock Board Examination (2026)**

**\*\*Time Allowed:\*\*** 2 Hours

**\*\*Maximum Marks:\*\*** 80

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## **General Instructions**

1. Answers to this paper must be written on separate answer sheets.
2. You are not allowed to write during the first 15 minutes.
3. This paper has **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 or parts of questions are given in brackets '[ ]'.
7. Use log tables if required.

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## **Section I (40 Marks)**

**Attempt all questions**

### **Question 1**

Choose the correct answer for each of the following:  $[10 \times 1 = 10]$

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 ( $\text{SO}_4^{2-}$ ) is:  
(a) 1 (b) 2 (c) 3 (d) 4
4. Which of the following is an example of a strong acid?  
(a) Acetic acid (b) Carbonic acid (c) Hydrochloric acid (d) Formic acid
5. The pH of a neutral solution at  $25^\circ\text{C}$  is:  
(a) 0 (b) 7 (c) 10 (d) 14
6. The bond in  $\text{NaCl}$  is mainly:  
(a) Covalent (b) Ionic (c) Coordinate (d) Metallic
7. The compound  $\text{CH}_3\text{COOH}$  belongs to:  
(a) Alkanes (b) Alcohols (c) Carboxylic acids (d) Esters
8. During electrolysis of acidified water, gas at cathode is:  
(a) Oxygen (b) Hydrogen (c) Nitrogen (d) Chlorine
9. The ore of aluminium is:  
(a) Haematite (b) Bauxite (c) Zinc blende (d) Calamine
10. The reducing agent among the following is:  
(a)  $\text{O}_2$ , (b)  $\text{Cl}_2$ , (c)  $\text{H}_2$ , (d)  $\text{HNO}_3$

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### **Question 2**

Fill in the blanks:  $[5 \times 1 = 5]$

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 \_\_\_\_\_.

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### **Question 3**

State whether the following statements are True or False: `[5 × 1 = 5]`

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.

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#### **Question 4**

Match Column A with Column B: `[5 × 1 = 5]`

| Column A | Column B |

|---|---|

- |  |                                    |
|--|------------------------------------|
| (i) NaOH                               | (a) Bleaching powder preparation   |
| (ii) CaOCl ,                           | (b) Caustic soda                   |
| (iii) H <sub>2</sub> SO <sub>4</sub> „ | (c) Oil of vitriol                 |
| (iv) NH <sub>3</sub> „OH               | (d) Laboratory reagent for alkalis |
| (v) Phenolphthalein                    | (e) Turns pink in base             |

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#### **Question 5**

Answer briefly: `[5 × 3 = 15]`

1. Define oxidation and reduction in terms of electron transfer. Give one example each. `[3]`
2. Write balanced chemical equations for: `[3]`
  - (i) Magnesium + Oxygen
  - (ii) Zinc + Dilute sulphuric acid
3. Name two differences between ionic and covalent compounds. `[3]`
4. Why is concentrated sulphuric acid called a dehydrating agent? Give one chemical example. `[3]`
5. What is electroplating? Mention two applications. `[3]`

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### **Section II (40 Marks)**

**Attempt any four questions**

#### **Question 6`[10]**

1. Define acids, bases, and salts with one example each. `[3]`
2. What do you understand by pH? State the pH range for: `[3]`
  - (i) acidic solution
  - (ii) basic solution
  - (iii) neutral solution
3. Explain with equations how sodium chloride can be converted to: `[4]`
  - (i) Sodium hydroxide
  - (ii) Hydrogen chloride gas

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#### **Question 7`[10]**

1. Differentiate between: `[4]`
  - (i) Endothermic and exothermic reactions
  - (ii) Combination and decomposition reactions
2. Explain displacement reaction with one equation involving iron and copper sulphate. `[3]`
3. Write ionic equation for neutralization of hydrochloric acid with sodium hydroxide. `[3]`

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#### **Question 8`[10]**

1. What is metallurgy? Name the main steps in extraction of metals from ores. `[4]`
2. Explain why aluminium extraction is done by electrolysis and not by carbon reduction. `[3]`

3. Give reasons: `[3]`

- (i) Gold is found in native state.
- (ii) Zinc is used for galvanization.
- (iii) Alloying improves properties of metals.

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### **Question 9 `[10]`**

1. Draw electron dot structures for: `[4]`

- (i) H ,O
- (ii) NH f

2. Define valency and oxidation number. `[2]`

3. Calculate molecular mass of: `[4]`

- (i) CaCO f
- (ii) H ,SO ,

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### **Question 10 `[10]`**

1. Name and give one use of the following organic compounds: `[4]`

- (i) Ethanol
- (ii) Ethanoic acid
- (iii) Methane
- (iv) Propanone

2. What is homologous series? Give any four characteristics. `[4]`

3. Differentiate between saturated and unsaturated hydrocarbons with one example each. `[2]`

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### **Internal Choice Practice (Optional)**

- Explain Haber process briefly with conditions. `[5]`
- Explain contact process briefly with equations. `[5]`

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### **Suggested Answer Key (Section I Objective)**

\*\*Q1:\*\* 1-b, 2-c, 3-b, 4-c, 5-b, 6-b, 7-c, 8-b, 9-b, 10-c

\*\*Q2:\*\* (1) (NH ,) ,SO , (2) Quicklime (3) Carbon dioxide (4) Oxidation (5) Hydrated iron(III) oxide

\*\*Q3:\*\* 1-F, 2-T, 3-T, 4-F, 5-T

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If you want, I can also generate:

1. \*\*Solved version\*\* (full detailed answers),
2. \*\*Printable PDF style format\*\* ,
3. \*\*3 more mock papers\*\* (Easy/Moderate/Hard).