

BOARD-PATTERN PRACTICE PAPER · CBSE CLASS 10

Acids, Bases and Salts

Science · Chapter 2 · Matches current CBSE blueprint · Each question PYQ-sourced where indicated

DATE _____	TOTAL MARKS 30	DURATION 90 min	MARKING As per board	TARGET ≥ 24/30
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GENERAL INSTRUCTIONS

1. All questions are compulsory.
2. Section A has objective-type questions of 1 mark each.
3. Section B has short-answer questions of 2–3 marks each.
4. Section C has long-answer questions of 5 marks each.
5. Write balanced chemical equations wherever asked. Use of calculator is NOT permitted.

Section A — Objective (5 × 1 = 5)

5 MARKS · 10 MIN

- Q1.** Name the gas released when zinc reacts with dilute sulphuric acid. [PYQ 2019 Delhi] **[1 mark]**
- Q2.** State the colour of phenolphthalein in NaOH solution. [PYQ 2018 All India] **[1 mark]**
- Q3.** Write the chemical formula of bleaching powder. [PYQ 2020 Delhi] **[1 mark]**
- Q4.** What is the pH range of human blood? [PYQ 2023 Delhi] **[1 mark]**
- Q5.** Which salt has 10 molecules of water of crystallisation? [PYQ 2022 Delhi] **[1 mark]**

Section B — Short answer (5 × 2 = 10)

10 MARKS · 25 MIN

- Q6.** Write the balanced equation for the reaction between sodium carbonate and dilute hydrochloric acid. How will you confirm the gas evolved? [PYQ 2021 Delhi] **[2 marks]**
- Q7.** Differentiate between a strong acid and a weak acid with one example each. [PYQ 2020 All India] **[2 marks]**
- Q8.** Why does dry HCl gas NOT turn dry blue litmus red, but turns moist blue litmus red? [PYQ 2019 Delhi] **[2 marks]**
- Q9.** Explain why an antacid is taken when one suffers from acidity. [PYQ 2018 Delhi] **[2 marks]**
- Q10.** Write the chemical name and one use each of (i) baking soda and (ii) washing soda. [PYQ 2024 All India] **[2 marks]**

Section C — Long answer (3 × 5 = 15)

15 MARKS · 55 MIN

- Q11.** (a) What is the chlor-alkali process? Write the balanced chemical equation. (b) State two uses each of the three products formed. [PYQ 2023 Delhi] **[5 marks]**
- Q12.** (a) Define Plaster of Paris and give its chemical formula. (b) Write the equation for its preparation from gypsum, mentioning the temperature. (c) Give any two uses. (d) Why should it be stored in a moisture-proof container? [PYQ 2024 Delhi] **[5 marks]**
- Q13.** (a) Define pH. Why is the pH of pure water 7? (b) Explain how a change in pH causes (i) tooth decay (ii) damage to crops by acid rain (iii) heartburn in the stomach. (c) Suggest one practical remedy for each. [PYQ 2022 Delhi] **[5 marks]**

Marking scheme & model answers — see companion Answer Key PDF · all PYQs traceable to actual CBSE papers · readyforboards.com · +91 70330 05444