Sample · lazytopper.com

Chemical Reactions & Equations · Board CBQs · Set 1 of 8

15 questions · 39 marks · Competency-based

PK-S-CRAE-CBQ1 Generated 9 Nov 2026

Instructions: Solve on this sheet or separate paper. **Label each answer with its question number (Q1, Q2 ...).** When done, upload one PDF of all your answers to get it graded with full solutions. Upload your answers at lazytopper.com → Worksheets → Upload answers (code PK-S-CRAE-CBQ1).

Section A

1 mark each

Q1. Which of the following is a NECESSARY condition for ALL chemical reactions?

(a) The reactants should be in the same state.

(b) Energy should be supplied to the reactants.

(c) The reactants should be at the same temperature.

(d) There should be physical contact between the reactants.

Q2. Rhea is given four pairs of colourless salt solutions and mixes the two solutions of each pair in a separate test tube. In which test tube will she see NO visible change?

(a) Barium chloride solution + sodium sulphate solution

(b) Potassium sulphate solution + sodium nitrate solution

(c) Silver nitrate solution + sodium chloride solution

(d) Lead nitrate solution + potassium iodide solution

Q3. In a metal-finishing workshop, a technician notices steady bubbling when scraps of aluminium sheet are dipped in dilute hydrochloric acid. The balanced equation for the reaction is written as: x Al(s) + y HCl(aq) → z $AlCl_3$(aq) + 3H_2(g) The ratio x : y of the reactants aluminium and hydrochloric acid is:

(a) 2 : 3 (b) 1 : 3 (c) 1 : 2 (d) 2 : 1

Science CBQ Pack ₹199 + GST · Get the full pack at lazytopper.com/packs