

Principles Related to Practical Chemistry

NEET previous year questions · Chemistry

1 question from the official papers: NEET 2026 (1). Each is followed by its answer and a worked solution written by BrainIt.
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1. NEET 2026 · Q77

In a test tube containing a salt, a few drops of dilute H_2SO_4 was added, which gave colourless vapours having the smell of vinegar. The vapours turned the blue litmus paper red. Identify the correct anion from the following:

- (1) Sulphide, S^{2-} (2) Sulphate, SO_4^{2-}
(3) Acetate, CH_3COO^- (4) Carbonate, CO_3^{2-}

Answer (3)

Sol. A colourless acidic vapour with the smell of vinegar indicates acetic acid: acetate salts react with dilute H_2SO_4 to liberate CH_3COOH (vinegar odour), which turns blue litmus red. Sulphide would give rotten-egg-smelling H_2S , carbonate gives odourless CO_2 (which turns lime water milky), and sulphate evolves no gas with dilute H_2SO_4 .

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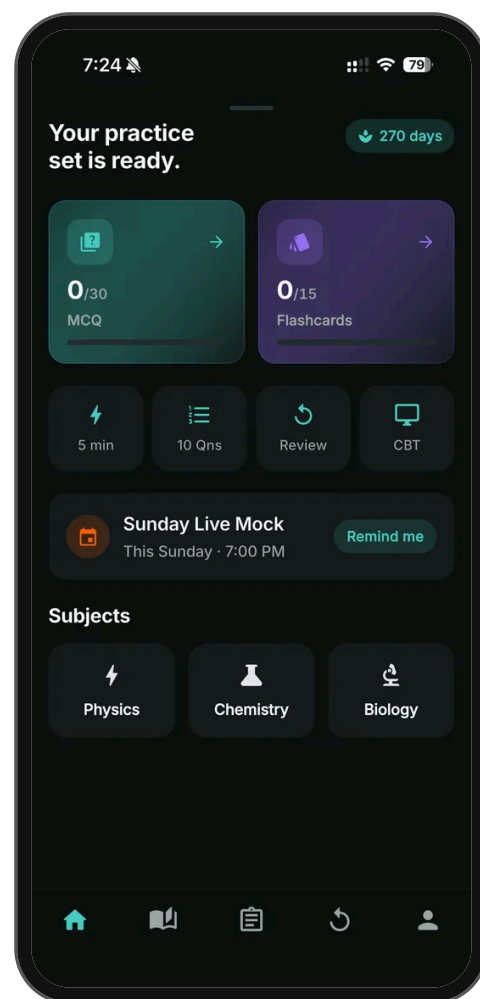
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