

Q5. For which of the following is the Hinsberg approach used?

- a) Preparation of primary amines
- b) Separation of amine mixtures
- c) Preparation of tertiary amines
- d) Preparation of secondary amines

**Answer:** b

**Explanation:** The Hinsberg reaction is a test for primary, secondary, and tertiary amine detection. The amine is thoroughly shaken with Hinsberg reagent in the presence of aqueous alkali in this test (either KOH or NaOH). A substrate is treated with a reagent containing an aqueous sodium hydroxide solution and benzenesulfonyl chloride.