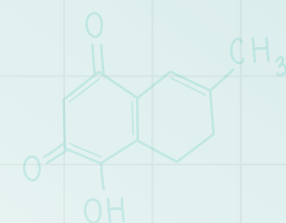


## Last Moment Exam Cheat Sheet

# Separation Technique

- Filtration separates **insoluble solid particles** from liquid or gas using a filter medium.
- **Chalk and water, sand and water, and tea leaves** from tea are separated by filtration.
- Sublimation separates a **sublimable solid** from non-sublimable impurities.
- Sublimation means direct conversion of **solid into gas** without becoming liquid.
- Centrifugation separates suspended particles from liquid on the basis of **density**.
- **Cream from milk and butter from curd** are separated by centrifugation or churning.
- Chromatography separates solutes that dissolve in the **same solvent**.
- **Dyes from ink** are separated by chromatography.
- Distillation separates liquids on the basis of **boiling point difference**.
- Simple distillation is used when boiling point **difference is large**.
- Fractional distillation is used when boiling point **difference is small**.





- **Crude oil refining** is done by fractional distillation.
- Decantation separates liquid from **settled solid** or **immiscible liquid layers**.
- Sedimentation is the settling of **heavier insoluble particles** at the bottom.
- Oil and water can be separated by **separating funnel** or decantation.
- Iron and copper filings can be separated by **magnetic separation**.
- Salt is obtained from seawater by **evaporation**.

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