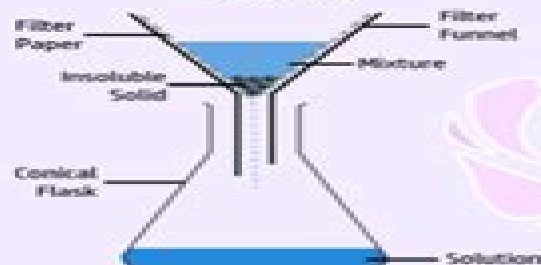


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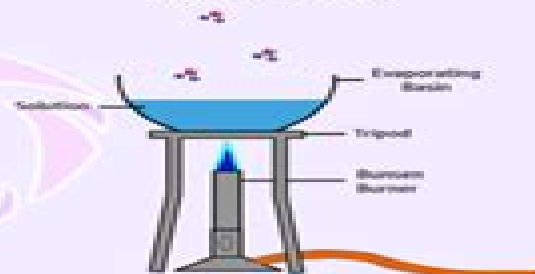
A. Filtration and crystallisation:

Filtration:



- ✧ Filtration is a technique used to separate a liquid from an **insoluble solid** – a solid that does not dissolve.
- ✧ The filter paper has tiny holes in it that allow water and dissolved solids to pass through.
- ✧ The holes are too small, however, for large particles to pass through – which means solids stay in the filter paper as **residue**.

Crystallisation:



- ✧ Crystallisation is a technique used to separate a liquid from a **soluble solid** – a solid that does dissolve.
- ✧ The Bunsen Burner is used to **evaporate** the water, leaving behind the **crystals** of your salt in the evaporating basin.
- ✧ After half of the water is evaporated, **leave it to cool**. The crystals can then be dried between filter paper.

B. Simple Distillation and Fractional Distillation:

Simple Distillation:



- ✧ Simple distillation is a technique used to separate two different **liquids** based on their **boiling points**.
- ✧ Example: Separating water (boils at 100°C) and ethanol (boils at 78°C).
 - ⚠ The solution is put into a round bottom flask and heated.
 - ⚠ Once it reaches 78°C, the ethanol will evaporate.
 - ⚠ The gas will rise and move into the **condenser**.
 - ⚠ The condenser is surrounded by cold water, which cools the gas down – turning it back into a **liquid**.
 - ⚠ If you stay **below** 100°C, the water will not evaporate.

Fractional Distillation:



- ✧ Fractional distillation is very similar to simple distillation, but is used to separate a mixture that contains lots of different liquids.
- ✧ All that is added is a **fractionating column**.
- ✧ As the mixture is heated, a **temperature gradient** will exist – where it is hotter at the bottom and cooler at the top.
- ✧ The vapour will rise up the column until it falls below its boiling point and will condense back down.
- ✧ Gases with a **lower boiling point** will be able to go **higher** up the column – and will be collected first and will go into the condenser.
- ✧ As the fractionating column continues to warm up, more and more of the fractions will move into the condenser, allowing them all to be collected separately.

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