

SUBSTANCES

**PURE
SUBSTANCES**

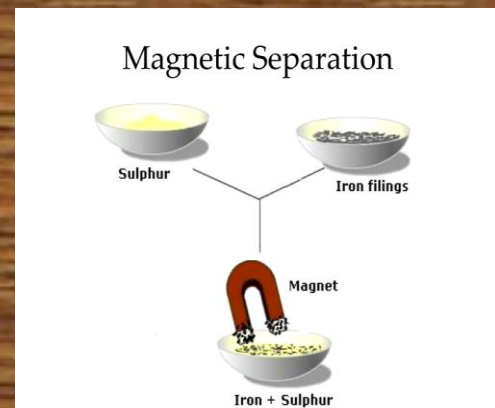
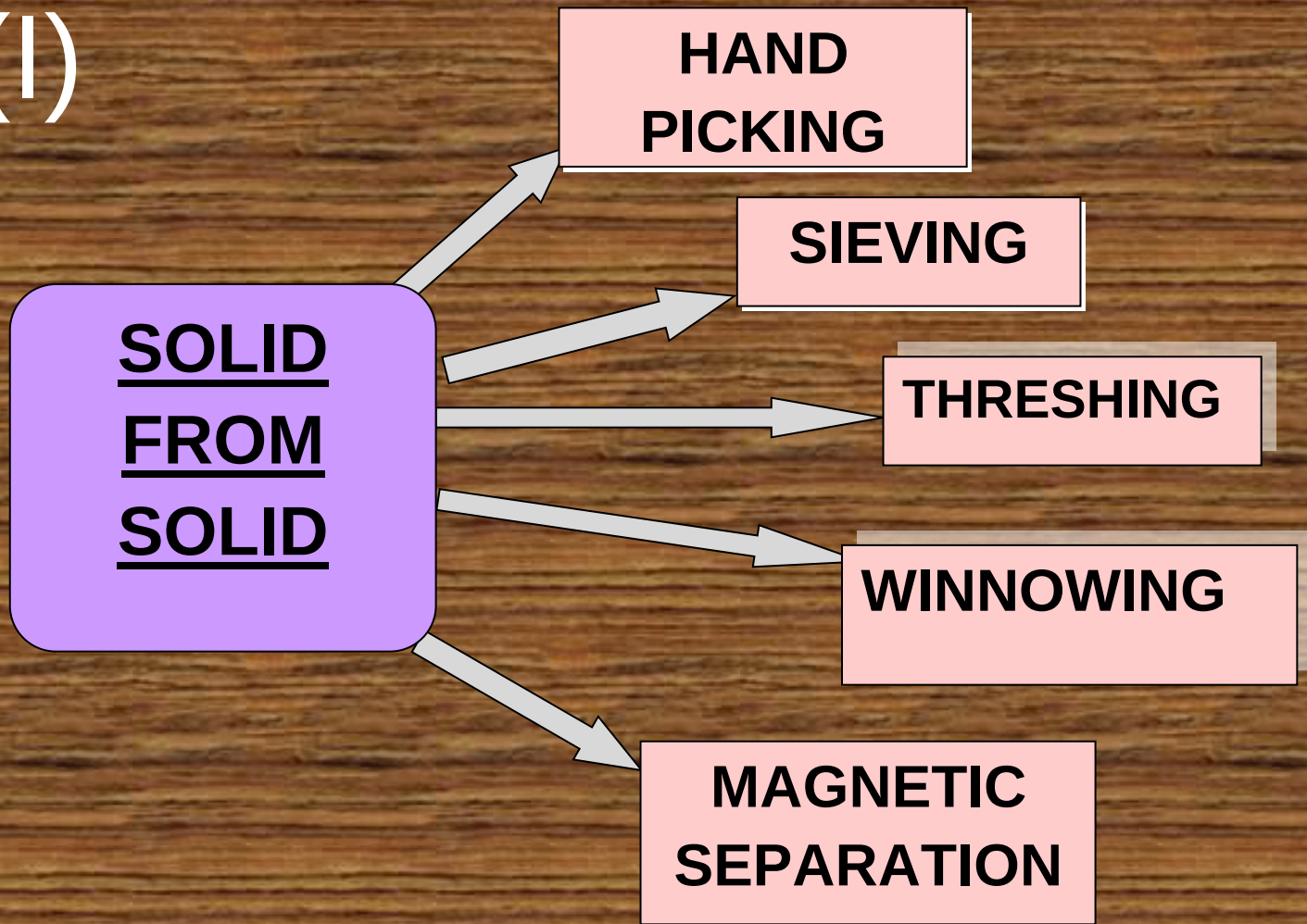
MIXTURES

PURPOSE OF SEPARATION OF MIXTURES MAY BE

- ✓ TO SEPARATE TWO PURE SUBSTANCES
- ✓ TO MAKE COMPONENTS PURE.
- ✓ TO SEPARATE ONE PURE SUBSTANCE FROM AN IMPURE SUBSTANCE
- ✓ TO SEPARATE TWO USEFUL COMPONENTS
- ✓ TO SEPARATE A SOLID FROM A LIQUID
- ✓ TO SEPARATE A SOLID FROM SOLID
- ✓ TO SEPARATE A LIQUID FROM A LIQUID

PROCEDURES INVOLVED IN SEPARATING:

(I)



(II)

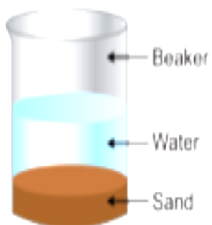
**SOLID
FROM
LIQUID**

**SEDIMENTATION
& DECANTATION**

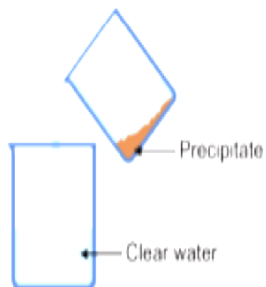
FILTRATION

CHURNING

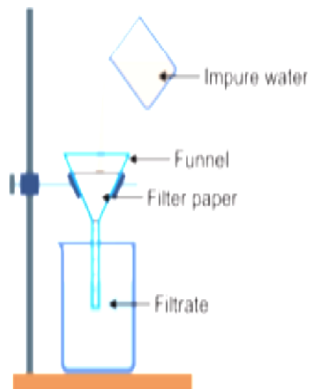
**EVAPORATION /
CONDENSATION**



Sedimentation

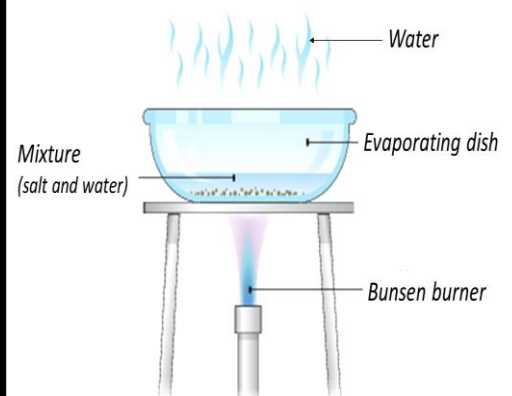


Decantation



Filtration

Separating Mixtures: Evaporation

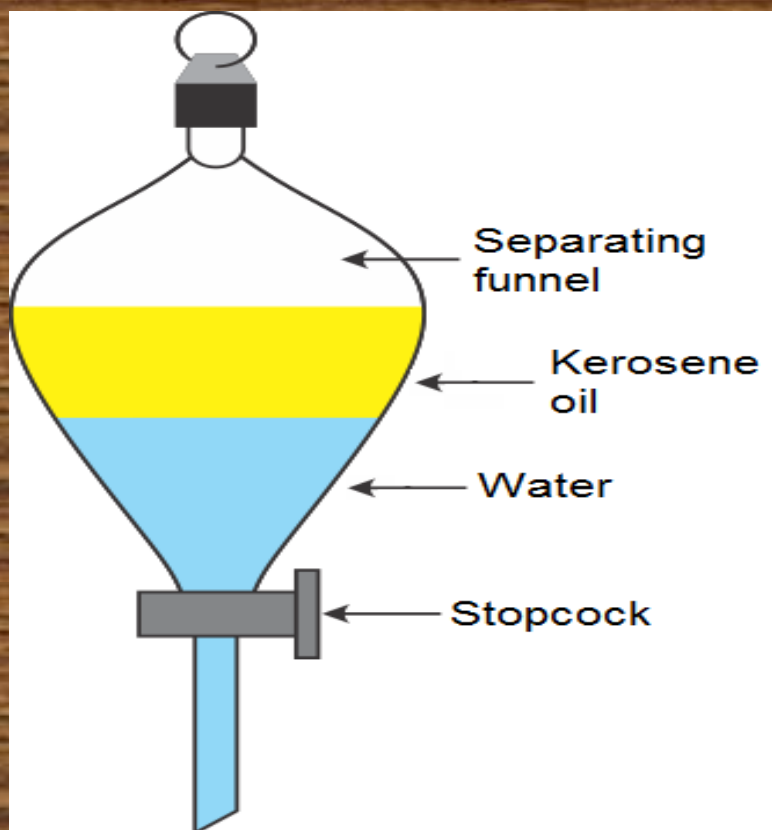


(III)

LIQUID
FROM
LIQUID

TWO IMMISCIBLE LIQUIDS
(OIL & WATER)

USING A SEPARATING
FUNNEL(OIL STAYS
ON TOP OF THE
BILAYER AND WATER
SETTLES AT THE
BOTTOM)



HOW TO MAKE A SATURATED SOLUTION UNSATURATED

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graph TD; A[HOW TO MAKE A SATURATED SOLUTION UNSATURATED] --> B[BY ADDING MORE SOLVENT]; A --> C[BY HEATING THE SOLUTION]
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**BY ADDING
MORE
SOLVENT**

**BY HEATING
THE SOLUTION**