



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science

Class: 8

Date: 13.05.20

Duration: 40 min

Worksheet 27

Full Marks: 15

## ELEMENTS COMPOUNDS AND MIXTURES/SEPARATION OF MIXTURES

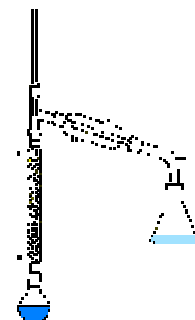
Choose the Correct options:

1 Which one of the following would you use to separate sand from iron filings?

- A. filter paper
- B. a distillation apparatus
- C. chromatography paper
- D. a bar magnet

2. The separation technique shown in the diagram is

- A. decanting
- B. fractional distillation
- A. chromatography
- B. filtration



3 In a coffee machine, the ground coffee is separated from the coffee solution by using

- A. filter paper
- B. tissue paper
- C. sand paper
- D. toilet paper



4. This is a simple method of separating an insoluble solid from a liquid.

- A. Distillation
- B. Evaporation
- C. Filtration
- D. Decanting

5. Liquids that do not mix may be separated by using

- A. a filter funnel
- B. a separating funnel
- C. an evaporating dish
- D. Liebig condenser



6. Miscible liquids that have different boiling points can be separated by

- A. chromatography
- B. decanting
- C. distillation
- D. filtration

7. A magnet could be used to separate

- A. water and sand
- B. sand and salt
- C. colours in a food dye
- D. sand and iron filings



8. The diagram shows the apparatus for separating soil and water. What are the labelled parts?

- A. A = residue, B = distillate
- B. A = filtrate, B = residue
- C. A = distillate, B = filtrate
- D. A = residue, B = filtrate

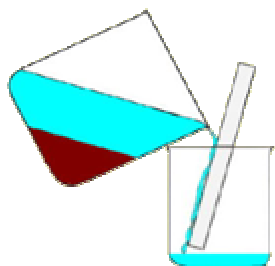


9. Which one of the following is a disadvantage of evaporation?

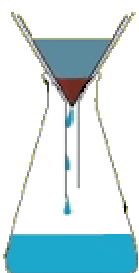
- A. It always requires heat
- B. All of the solute is recovered
- C. It cannot be used for insoluble solids
- D. The solvent is not recovered

10. Which one of the following shows the separation technique of evaporation?

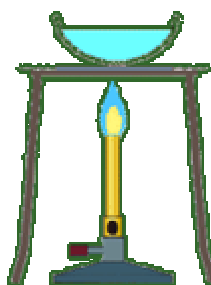
A.



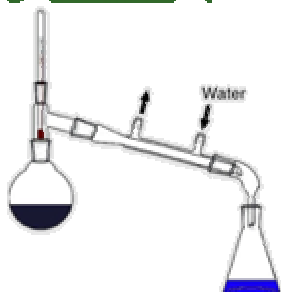
B.



C.

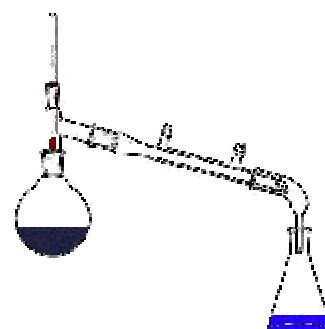


D.



11 Water and alcohol are easily separated by distillation because of their

- A. different densities
- B. different colours
- C. different melting points
- D. different boiling points



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12. Dyes in water soluble markers may be separated by means of

- A. distillation
- B. chromatography
- C. decanting
- D. evaporation



13. Which one of the following methods is used to separate the colours in food dyes?

- A. sieving
- B. evaporation
- C. decanting
- D. chromatography

14. Which one of the following pairs of separation techniques will BOTH separate salt from a mixture of salt and water?

- A. Chromatography and evaporation
- B. Decanting and distillation
- C. Decanting and filtration
- D. Distillation and evaporation

15. Which one of the following is NOT a mixture?

- A. Crude oil
- B. Air
- C. Sugar
- D. Paint