



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science

Class: 8

Date: 11.05.20

Duration: 40 min

Worksheet Solution 25

Full Marks: 15

ELEMENTS COMPOUNDS AND MIXTURES/SEPARATION OF MIXTURES

Choose the Correct options:

1. A change that occurs without changing the chemical makeup is a
 - a. Chemical Change
 - b. Colour change
 - c. Physical Change**
 - d. Substance Change
2. A solution that contains a large amount of solute is best described as
 - a. unsaturated
 - b. concentrated**
 - c. dilute
 - d. weak
3. An element can be broken down into simpler substances by...
 - a. physical means
 - b. chemical means
 - c. Both chemical and physical means
 - d. elements can't be broken down**
4. Which of these is NOT a pure substance?
 - a. elements
 - b. compounds
 - c. mixtures**
 - d. they are all pure substances
5. Which one of the following is NOT an example of a separation technique?
 - a. boiling an egg**
 - b. fishing net
 - c. surgical mask
 - d. tea strainer
6. Which technique is shown the diagram below



- a. sieving
 - b. filtration
 - c. decanting**
 - d. crystallization
7. Sand and gravel may be separated from each other through using
 - a. a filter funnel
 - b. Liebig condenser
 - c. an evaporating basin
 - d. sieve**
 8. Which one of the following would you use to separate sand from iron filings?
 - a. a bar magnet**
 - b. filter paper
 - c. distillation apparatus
 - d. chromatography paper

9. Dyes in water soluble markers may be separated by means of
- Distillation
 - Liquid-Liquid Extraction
 - Chromatography**
 - Centrifuge
10. Which one of the following methods would NOT be used to separate an insoluble solid and a liquid?
- evaporation
 - decanting
 - distillation
 - chromatography**
- 11 The separation technique that involves heating a solution until the liquid changes into a gaseous state, leaving behind a solid is known as
- evaporation**
 - crystallization
 - centrifuge
 - chromatography
12. In the process of evaporation, which one of the following pieces of laboratory apparatus would NOT be used?
- evaporating basin
 - filter funnel**
 - bunsen burner
 - Wire gauze
13. The diagram shows the apparatus for separating soil and water. What are the labelled parts?



- A = distillate, B = filtrate
 - A = filtrate, B = residue
 - A = residue, B = filtrate**
 - A = residue, B = distillate
14. Which one of the following techniques would best be used to separate soil and water?
- distillation
 - decanting**
 - filtration
 - evaporation
15. Which one of the following is a disadvantage of evaporation?
- It always requires heat
 - It cannot be used for insoluble solids
 - All of the solute is recovered
 - The solvent is not recovered**