

Chapter 6 : Mixtures and Solutions

Section 1 : Types of Mixtures

Home work (1)

Grade 11 General

Date: / 4 / 2020

Al Dhaher School Cycle 3

\*Answer the following questions:

**1-Distinguish** between suspensions and colloids .

|  |  |  |
| --- | --- | --- |
|  | **Suspensions** | **Colloid** |
| **Type of mixture** |  |  |
| **Particle size** |  |  |
| **Tyndall effect** |  |  |

…………………………………………………………………………………………………………

**2-Explain** : Why do dispersed colloid particles stay dispersed ?

…………………………………………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………

**3-Summarize**: What causes Brownian motion ?

…………………………………………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………

4-What is the difference between a **solute** and a **solvent** ?

…………………………………………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………

5-How can the **Tyndall effect** be used to distinguish between a **colloid** and a **solution** ? Why ?

…………………………………………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………

**6-Name** a colloid formed from a gas dispersed in a liquid?

…………………………………………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………

7-What causes the **Brownian motion** observed in liquid colloids

…………………………………………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………

**8-Choose the correct** answer or supplement for each of the following:

1. Colored gemstones are classified from the colloid mixture:

a. Solid – Solid b. emulsion

c. Solid foam d. Solid aerobic aerosols

2. Which of the following is an emulsion:

a. Blood b. Milk

c. Cheese d. Gelatin

3. The material that dissolves is called:

a. Solute b. Solvent

c. Concentrated d. Diluted

4. The solubility of dissolved particles on light dispersion is known as:

a. Rhyming b. Heating

c. Filtrating d. Tyndall

…………………………………………………………………………………………………………

**9- Vinegar solution** is used in some of the foods we eat, specify the solvent and solubility, and the physical state of each in the vinegar solution.

• The **solvent** is .................... and its **physical state** ....................

**Solubility** is .................... and its **physical state** ………….........

****