

PON VIDYASHRAM, VALASARAVAKKAM
PERIODIC TEST - 1
CHEMISTRY – WORK SHEET
CLASS – IX

I. Answer in one or two sentences:-

1. State any two characteristics of matter demonstrated by
 - a. Diffusion
 - b. Brownian motion
2. Classify the following into elements and compounds.
 - a. H_2O
 - b. H
 - c. Cl_2
 - d. CO
3. State two reasons why do you think air is a mixture and water is a compound.
4. State whether the following statement is True or False. Justify a. Solid CO_2 is stored under low pressure.
5. Convert the following into Kelvin scale.
 - a. $373^{\circ}C$
 - b. $490^{\circ}C$.
6. Which of the following shows Tyndall effect?
 - a. Salt solution
 - b. Starch Solution
 - c. Milk
 - d. $CuSO_4$
7. What is meant by concentration of a solution.
8. Define the following:-
 - a. Sol
 - b. Aerosol
 - C. Emulsion
 - d. Foam
9. State the characteristic of matter
10. Honey is more viscous than water. Can you suggest why?

II. Answer the following:-

1. Give reason.
 - a. Ice in $0^{\circ}C$ is more effective in cooling than water at the same temperature.
 - b. How does the water kept in an earthen pot become cold during summer.
2. What are pure substances? Give 2 Examples of pure substance.
3. Define compound. Give two points of evidence to show that sodium chloride is a compound.
4. Why does our palm feel cold when we put some acetone (or perfume) on it.
5. Why does a desert cooler cool better on a hot, dry day?

6. Why are we able to sip hot tea or Milk faster from a saucer rather than from a cup?
7. What is the other name of impure substance> Give 2 examples of impure substance.
8. Which of the following two will scatter the light soap or sugar solution. Why?
9. 21.5g of sodium chloride dissolves in 60g of water at 25⁰C. Calculate the solubility of sodium chloride in water at that temperature.
10. The “sea water” can be classified as homogeneous as well as heterogeneous mixture ? Comment.

III. Answer the following:-

1. Differentiate between Mixtures and Compounds.
2. Write the properties of True solution and colloids.
3. (a) What are the factors affecting the rate of evaporation .
(b) Write the crystallization better than evaporation
4. Tabulate the difference between the characteristics of state of matter.
- 5(a) How is cream separated from milk?

(b) What is chromatography? State its two applications.

IV. Answer in details:-

- (a) What is fractional distillation? What is the use of fractionating column in fractional distillation?
- (b) Draw a labeled diagram of the fractional distillation apparatus used for separating a mixture of alcohol and water.
