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SUBJECT NAME -CHEMISTRY GRADE- XII

WORKSHEET SOLUTIONS

MULTIPLE CHOICE QUESTIONS:

- 1. The volume occupied by a single gas in a mixture at the same temperature and pressure is referred to as the single-gas volume.
 - a. Absolute volume
 - b. Partial volume
 - c. Total volume of a gas mixture
 - d. None of the mentioned
- 2. The pressure that a single component in a gaseous mixture would exert if it existed alone in the same volume as the mixture and at the same temperature as the mixture is referred to as.
 - a. Absolute pressure
 - b. Partial pressure
 - c. Total pressure of a gas mixture
 - d. None of the mentioned
- 3. ______ obeys Raoult's law in all stages of concentration.
 - a. Ideal Solution
 - b. Non-Ideal solution
 - c. Real Solution
 - d. None of the mentioned
- 4. When two perfect solutions with volume V each are combined, What is the volume of the solution as a result?
 - a. V
 - b. 2V
 - c. Greater than 2V
 - d. Less than 2V
- 5. The heat of solution or mixing has a negative side.
 - a. Heat of solution
 - b. Heat of dissolution



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- c. Heat of reaction
- d. Heat of mixing
- 6. A solution made up of numerous components in which each component's property is the weighted sum of its separate properties. The answer is
 - a. Ideal Solution
 - b. Non-Ideal solution
 - c. Real Solution
 - d. None of the mentioned
- 7. What is an example of camphor in N2 gas?
 - a. Solid in gas solution
 - b. Gas in gas solution
 - c. Solid in liquid solution
 - d. Liquid in gas solution
- 8. What happens when a solute crystal is added to a supersaturated solution?
 - a. It becomes a colloidal solution
 - b. The solute dissolves in the solution
 - c. The solution desaturates
 - d. The solute precipitates out of the solution
- 9. Which of the following options is not a viable option?
 - a. Brass
 - b. Bronze
 - c. Hydrated salts
 - d. Aerated drinks
- 10. What makes a solution?
 - a. Solute and solvent
 - b. Solute and solute
 - c. Solvent and solvent
 - d. None of the above

Short Answer Type Questions

- 1. (a) Explain the following phenomena with the help of Henry's law.
 - (i) Painful condition known as bends.
 - (ii) Feeling of weakness and discomfort in breathing at high altitude.
 - (b) Why does soda water bottle kept at room temperature fizzes on opening?



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2. Explain why on the addition of 1 mol of NaCl to 1 litre of water, the boiling point of water increases, while the addition of 1 mol of methyl alcohol to one litre of water decreases its boiling point.

Long Answer Type Questions

- 1. Using Raoult's law, explain how the total vapour pressure over the solution is related to the mole fraction of components in the following solutions.
- (i) $CHCl_3(I)$ and $CH_2Cl_2(I)$ (ii) NaCl(s) and $H_2O(I)$
- 2. Discuss the biological and industrial importance of osmosis.