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# Chemistry 12 Chapter 2 Exemplar Solutions Question and Answer Part 1 (For CBSE, ICSE, IAS, NET, NRA 2022)

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## I. Multiple Choice Questions (Type-I)

### Question 1:

Which of the following units is useful in relating concentration of solution with its vapour pressure?

- (i) Mole fraction
- (ii) Parts per million
- (iii) Mass percentage
- (iv) Molality

**Answer: (i)**

### Question 2:

On dissolving sugar in water at room temperature solution feels cool to touch. Under which of the following cases dissolution of sugar will be most rapid?

- (i) Sugar crystals in cold water.
- (ii) Sugar crystals in hot water.
- (iii) Powdered sugar in cold water.
- (iv) Powdered sugar in hot water.

**Answer: (iv)**

### Question 3:

At equilibrium the rate of dissolution of a solid solute in a volatile liquid solvent is \_\_\_\_\_.

- (i) less than the rate of crystallisation

(ii) greater than the rate of crystallisation

(iii) equal to the rate of crystallisation

(iv) zero

**Answer: (iii)**

**Question 4:**

A beaker contains a solution of substance 'A'. Precipitation of substance 'A' takes place when small amount of 'A' is added to the solution. The solution is \_\_\_\_\_.

(i) Saturated

(ii) Supersaturated

(iii) Unsaturated

(iv) Concentrated

**Answer: (ii)**

**Question 5:**

Maximum amount of a solid solute that can be dissolved in a specified amount of a given liquid solvent does not depend upon \_\_\_\_\_.

(i) Temperature

(ii) Nature of solute

(iii) Pressure

(iv) Nature of solvent

**Answer: (iii)**

**Question 6:**

Low concentration of oxygen in the blood and tissues of people living at high altitude is due to \_\_\_\_\_.

(i) Low temperature

(ii) Low atmospheric pressure

(iii) High atmospheric pressure

(iv) Both low temperature and high atmospheric pressure

**Answer: (ii)**

