

CHEMISTRY-11	Chapter#09(Complete) Test-2		
	Name:	Class:	ID:
Date: / /	Marks Total: 25	Marks Obtained:	
Time Allowed: 40 Min.			

Maximum Marks: 09

(OBJECTIVE TYPE)

Time Allowed: 10 Min.

NOTE: Tick The Correct Option:

- An azeotropic mixture of two liquids boils at a lower temperature than either of them when:
 - It is saturated.
 - It shows positive deviation from Raoult's law.
 - It shows negative deviation from Raoult's law.
 - It is metastable.
- Which of the following solution has the highest boiling point?
 - 5.85% solution of sodium chloride
 - 18.0% solution of Glucose
 - 6.0% solution of Urea
 - 4.0% solution of Sucrose
- Elevation of boiling point is _____.
 - Additive
 - Constitutive
 - Colligative
 - Substitutive
- Which is true for ideal solutions?
 - $\Delta H = \text{Positive}$
 - $\Delta H = \text{Negative}$
 - $\Delta H = \text{Zero}$
 - None
- Which one is the equation for Raoult's law?
 - $P^o = P \times x_1$
 - $\frac{P^o}{\Delta P} = x_2$
 - $\Delta P = P^o \times x_2$
 - None
- The colligative properties are those which depend upon the number of:
 - Solute molecules
 - Solvent molecules
 - Solute ions
 - All
- The use of antifreeze in automobile radiators is a practical example of:
 - Boiling point elevation
 - Freezing point depression
 - Osmotic pressure
 - Both 'a' & 'b'
- Which salt has exothermic heat of solution?
 - LiCl
 - KNO₃
 - NaCl
 - NH₄NO₃
- On dissolving a salt in water, the temperature of the solution increases, and the container heats up. What the salt may be?
 - NH₄NO₃
 - KI
 - NH₄Cl
 - LiCl

Maximum Marks: 16

(SUBJECTIVE TYPE)

Time Allowed: 30 Min.

SECTION-I

Q.2: Give brief answers to the following questions: (12)

- Relative lowering of vapour pressure is independent of temperature. Explain.
- What is fractional crystallization? OR How does fractional crystallization help in removing the impurities from a solid substance?
- What are colligative properties? Why are they called so? Name some of them.
- What are the conditions to observe the colligative properties?
- What is the use of ethylene glycol in an automobile radiator?
- Define hydration energy of ions.

SECTION-II

NOTE: Attempt All Questions:

(04)

Q.3: Describe Landsburger's method for measuring the boiling point elevation.