

CHEMISTRY-11	Chapter#09-First Half (9.0 - 9.4) Test-1		
	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 aqueous solution of ethanol in water may have vapour pressure:
 - Equal to that of water
 - Equal to that of ethanol
 - More than that of water
 - Less than that of water
- The sum of mole fractions of gases in a mixture of gases is:
 - Always more than 1
 - May be less or more than 1
 - Always less than 1
 - Always 1
- Upper consolute temperature for water-phenol system is:
 - 150°C
 - 65.9°C
 - 120°C
 - 130°C
- Which one is affected by temperature?
 - Molarity
 - Molality
 - Mole fraction
 - All
- When equal volumes of phenol and water are mixed at 25°C, the lower layer contains:
 - 5% phenol in water
 - 5% water in phenol
 - 30% phenol in water
 - 30% water in phenol
- Which one is ideal solution?
 - Ethyl iodide-ethyl bromide solution
 - Ethyl alcohol- water solution
 - Water-HCl solution
 - None
- Which liquid mixture can be separated by fractional distillation?
 - Methyl alcohol-water
 - Ethyl alcohol-water
 - Water-HCl
 - None
- If the enthalpy of solution of a mixture of two liquids is positive, it will show _____ deviation from Raoult's law.
 - Positive
 - Negative
 - Both 'a' & 'b'
 - None
- The azeotropic mixture of water and HCl contains HCl:
 - 95.5%
 - 20.24%
 - 79.76%
 - 4.5%

Maximum Marks: 16

(SUBJECTIVE TYPE)

Time Allowed: 30 Min.

SECTION-I

Q.2: Give brief answers to the following questions:

(12)

- Define a solution.
- Define molality. Give its mathematical expression.
- Define mole fraction and parts per million.
- What is solubility principle?
- Differentiate between ideal and non-ideal solutions.
- What do you mean by minimum boiling point mixture?

SECTION-II

NOTE: Attempt All Questions:

(04)

Q.3: What is Raoult's Law? Give its three statements.