

<b>CHEMISTRY-11</b>	<b>Chapter#04-First Half (4.1-4.3) Test-4</b>		
	Name:	Class:	ID:
Date: / /	<b>Marks Total: 30</b>	<b>Marks Obtained:</b>	
Time Allowed: 50 Min.			

Maximum Marks: 10

**(OBJECTIVE TYPE)**

Time Allowed: 10 Min.

**NOTE:** Tick The Correct Option:

- The boiling point of water at Murree hills:
  - 90°C
  - 98°C
  - 100°C
  - 120°C
- Which hydrocarbon is a liquid at room temperature?
  - Butane
  - Propane
  - Pentane
  - Both 'a' and 'c'
- The molecules of which pair have hydrogen bonding among themselves?
  - Chloroform and CCl<sub>4</sub>
  - Acetone and chloroform
  - CCl<sub>4</sub> and ethanol
  - Acetone and CCl<sub>4</sub>
- The number of hydrogen bonds per HF molecule is:
  - 1
  - 2
  - 3
  - 4
- The non-polar parts of the soap or detergent molecules are:
  - Alkyl groups
  - Benzyl group
  - Carboxyl group
  - Both 'a' & 'b'
- The number of H-bonds between guanine and cytosine in DNA is:
  - 1
  - 2
  - 3
  - 4
- The distillation brought under reduced pressure is called:
  - Steam distillation
  - Fractional distillation
  - Vacuum distillation
  - Destructive distillation
- Which one is incorrect vapour pressure-boiling point combination for water?
  - 760 torr & 100°C
  - 23.7 torr & 25°C
  - 700 torr & 98°C
  - 1498 torr & 120°C
- Which property of liquid crystal shows that it is crystalline solid?
  - Fluidity
  - Viscosity
  - Surface tension
  - Diffraction of light
- The use of liquid crystals as temperature sensors, in electrical displays and oscillography owes to the property of:
  - Reflection
  - Diffraction
  - Refraction
  - All

Maximum Marks: 20

**(SUBJECTIVE TYPE)**

Time Allowed: 40 Min.

**SECTION-I**

- Q.2: Give brief answers to the following questions: (12)**
- What is the role of London dispersion forces in the liquefaction of noble gases?
  - London dispersion forces are weaker than dipole-dipole forces. Explain.
  - Why does ice float on the surface of water?
  - Why does water boil at different temperatures at Murree hills and on the Mount Everest?
  - Water and ethanol can mix easily and in all proportions. Explain.
  - Steam causes more severe burns than does boiling water. Why?

**SECTION-II**

**NOTE:** Attempt All Questions:

(08)

**03:** What is hydrogen bonding? Discuss hydrogen bonding in biological compounds.

**04:** Define vapour pressure. Describe manometric method for the measurement of vapor pressure of a liquid.