

CHEMISTRY-11	Chapter#04 (Complete-Smart Syllabus) Test-4		
	Name:	Class:	ID:
Date: / /	Marks Total: 30	Marks Obtained:	
Time Allowed: 50 Min.			

Maximum Marks: 06

(OBJECTIVE TYPE)

Time Allowed: 10 Min.

NOTE: Tick The Correct Option:

- Amorphous solids:**
 - Have sharp melting points.
 - Undergo clean cleavage when cut with knife.
 - Have perfect arrangement of atoms.
 - Can possess small regions of orderly arrangement of atoms.
- The hydrides of which group have the lowest boiling points?**
 - VII A
 - IV A
 - V A
 - VIA
- The coiling of the amino acids chain in proteins is maintained by hydrogen bonding between:**
 - N and H
 - O and H
 - F and H
 - Cl and H
- Which one is not element of symmetry?**
 - Center of symmetry
 - Plane of symmetry
 - Angle of symmetry
 - Axis of symmetry
- NaNO₃ and KNO₃ are isomorphs and exist in the same crystalline form which is:**
 - Orthorhombic
 - Rhombohedral
 - Hexagonal
 - Cubic
- The hexagonal crystal system has the unit cell dimensions:**
 - $a = b = c; \alpha \neq \beta \neq \gamma \neq 90^\circ$
 - $a = b \neq c; \alpha = \beta = 90^\circ, \gamma = 120^\circ$
 - $a \neq b \neq c; \alpha = \beta = \gamma = 90^\circ$
 - $a \neq b \neq c; \alpha = \gamma = 90^\circ, \beta \neq 90^\circ$

Maximum Marks: 24

(SUBJECTIVE TYPE)

Time Allowed: 40 Min.

SECTION-I

- Q.2: Give brief answers to the following questions: (16)**
- What are Debye's forces or dipole-induced dipole forces?
 - London dispersion forces are weaker than dipole-dipole forces. Explain.
 - Define hydrogen bonding. Show hydrogen bonding in ammonia.
 - Why is the boiling point of H₂O greater than that of HF, although F is more electronegative than O atom?
 - What is the role of H-bonding in cleansing action of soaps and detergents?
 - Amorphous solids like glass are also called super cooled liquids, explain.
 - Cleavage is anisotropic property, explain.
 - Define unit cell. Give one example.

SECTION-II

NOTE: Attempt All Questions:

(08)

- Q.3: Define hydrogen bonding? Explain the structure of ice with the help of hydrogen bonding.**
- Q.4: What are liquid crystals. Give their uses.**