

CHEMISTRY-12	Chapter#07(Complete) Test: B-2		
	Name:	Class:	ID:
Date: / /	Marks Total: 30	Marks Obtained:	
Time Allowed: 1 Hr.			

Maximum Marks: 06 **(OBJECTIVE TYPE)** Time Allowed: 10 Min.

NOTE: Tick The Correct Option:

- 1: In t-butyl alcohol, the tertiary carbon is bonded to:
 - (a) Two hydrogen atoms
 - (b) Three hydrogen atoms
 - (c) One hydrogen atom
 - (d) No hydrogen atom
- 2: Ethers show the phenomenon of:
 - (a) Position isomerism
 - (b) Functional group isomerism
 - (c) Metamerism
 - (d) Cis-trans isomerism
- 3: CO_2H is a functional group:
 - (a) Alkoxy
 - (b) Carbonyl
 - (c) Carboxyl
 - (d) hydroxyl
- 4: Number of possible chain isomers of an alkane C_5H_{12} are:
 - (a) 2
 - (b) 3
 - (c) 4
 - (d) 5
- 5: sp^2 hybrid orbitals are arranged at an angle of:
 - (a) 104.5°
 - (b) 107.5°
 - (c) 109.5°
 - (d) 120°
- 6: A triple bond consists of:
 - (a) Two sigma and one pi bond
 - (b) One sigma and two pi bonds
 - (c) Three sigma bonds
 - (d) Three pi bonds

Maximum Marks: 24 **(SUBJECTIVE TYPE)** Time Allowed: 50 Min.

SECTION-I

- Q.2: Give brief answers to the following questions: (16)
- i. What is the importance of Wohler's work in organic chemistry?
 - ii. How is coal formed in nature?
 - iii. What is catalytic cracking?
 - iv. What are aliphatic (acyclic) compounds?
 - v. What is meant by a functional group? Give the general formula of functional groups of Mercaptans and Nitriles.
 - vi. Draw the shape of methane molecule, according to hybridization approach.
 - vii. Why is there no free rotation around a double bond but a free rotation around a single bond?
 - viii. What are isomers? Write isomers of pentane.

SECTION-II

NOTE: Attempt All Questions:

(08)

Q.3: Explain reforming of petroleum with the help of suitable example.

Q.4: Give four types of structural isomerism with one example in each.