

CHEMISTRY-12	Chapter # 09 (Complete) Test: A-1		
	Name:	Class:	ID:
Date: / /	Marks Total: 19	Marks Obtained:	
Time Allowed: 40 Min.			

Maximum Marks: 05 **(OBJECTIVE TYPE)** Time Allowed: 10 Min.

NOTE: Tick The Correct Option:

- The benzene molecule contains:
 - Three double bonds
 - Two double bonds
 - One double bond
 - Delocalized π - electron charge
- During nitration of benzene, the active nitrating agent is:
 - NO_3
 - NO_2^+
 - NO_2^-
 - HNO_3
- The conversion of n-hexane into benzene by heating in the presence of Pt is called:
 - Isomerization
 - Aromatization
 - Dealkylation
 - Rearrangement
- Molecular formula of benzyl chloride is:
 - $\text{H}_5\text{C}_6\text{CCl}_3$
 - $\text{H}_5\text{C}_6\text{CHCl}_2$
 - $\text{H}_5\text{C}_6\text{CH}_2\text{Cl}$
 - $\text{H}_5\text{C}_6\text{CH}_2\text{CH}_2\text{Cl}$
- Which one of the followings is ortho and para directing group?
 - I
 - CHO
 - COOH
 - $-\text{NR}_3^+$

Maximum Marks: 14 **(SUBJECTIVE TYPE)** Time Allowed: 30 Min.

SECTION-I

- Q.2: Give brief answers to the following questions: (10)
- What are monocyclic aromatic hydrocarbons? Give examples.
 - Draw structural formulas of:
 - p-Dibenzylbenzene.
 - 2-Amino-5-bromo-3-nitrobenzenesulphonic acid.
 - What do X-ray studies of benzene say?
 - What happens when chlorine is passed through benzene in sunlight?
 - What are ortho and para-directing groups?

SECTION-II

NOTE: Attempt All Questions: (04)

- Q.3: Explain the structure of benzene on the basis of atomic orbital treatment.