

CHEMISTRY-12	Chapter#07(Complete) Test: C-3		
	Name:	Class:	ID:
Date: / /	Marks Total: 40	Marks Obtained:	
Time Allowed: 75 Min.			

Maximum Marks: 08 **(OBJECTIVE TYPE)** Time Allowed: 15 Min.

NOTE: Tick The Correct Option:

- The chemist who synthesized urea from ammonium cyanate was:
 - Berzelius
 - Kolbe
 - Wholer
 - Lavoisier
- Linear shape is associated with which set of hybrid orbitals?
 - sp
 - sp²
 - sp³
 - dsp²
- SH functional group is called:
 - Cyano
 - Mercapto
 - Nitro
 - Carboxyl
- Tetraethyl (TEL) lead is used as:
 - Pain killer
 - Petroleum additive
 - Fire extinguisher
 - Moth repellent
- Gasoline contains compounds having carbon range:
 - C₄ to C₈
 - C₄ to C₁₃
 - C₇ to C₁₃
 - C₈ to C₁₄
- Which carbon will be the most stable?
 - A divalent carbon
 - sp hybridized
 - sp² hybridized
 - sp³ hybridized
- In CH₃-C≡C-CH₃, the C-C bond between 2nd and 3rd carbon results from _____ overlap.
 - sp-sp
 - sp³-sp³
 - sp³-sp²
 - sp-sp³
- Free rotation is possible around:
 - Single bond
 - Double bond
 - Triple bond
 - Both 'a' & 'c'

Maximum Marks: 32 **(SUBJECTIVE TYPE)** Time Allowed: 60 Min.

SECTION-I

- Q.2: Give brief answers to the following questions: (20)
- What are fossil fuels?
 - Name the fractions, obtained by the fractional distillation of petroleum.
 - What is steam cracking?
 - Define octane number. How can it be improved?
 - Write names and formulas of two antiknocking agents.
 - What are amines and imines? Give one example of each.
 - What do you mean by the sigma frame work of ethyne molecule? Draw its shape.
 - Draw the shape of CH₃Cl molecule, showing overlapping of its orbitals.
 - What is geometric or cis-trans isomerism? Give one example.
 - What is the necessary condition for a compound to show cis-trans isomerism?

SECTION-II

NOTE: Attempt All Questions:

(12)

- How organic compounds are classified? Give suitable examples of each type.
- What is sp² hybridization? Describe structure of ethene in the light of sp² hybridization.
- What is chain isomerism? Draw all the possible skeletal formulae of hexane.