

CHEMISTRY-12	Chapter#08(Complete) Test: C-2		
	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:

- Formula of chloroform is:
 (a) CH_3Cl (b) CCl_4 (c) CH_2Cl_2 (d) CHCl_3
- The addition of unsymmetrical reagent to an unsymmetrical alkene is in accordance with:
 (a) Hund's rule (b) Markownikov's rule
 (c) Pauli's Exclusion principle (d) Aufbau principle
- Which one of the following gases is used for artificial ripening of fruits?
 (a) Ethene (b) Ethyne (c) Methane (d) Propane
- The general formula of alkane is:
 (a) $\text{C}_n\text{H}_{2n+1}$ (b) C_nH_{2n} (c) $\text{C}_n\text{H}_{2n-2}$ (d) $\text{C}_n\text{H}_{2n+2}$
- Which one is not property or use of mustard gas?
 (a) Used in 1st World War (b) Powerful vesicant
 (c) High boiling liquid (d) High boiling gas
- The correct IUPAC name for $\text{CH}_3\text{—CH}_2\text{—CH—CH}_2\text{—CH}_3$ is:

$$\begin{array}{c} \text{CH} \\ | \\ \text{CH}_3 \quad \text{CH}_3 \end{array}$$
 (a) 3-Isopropylpentane (b) 3-Ethyl-2-methylpentane
 (c) 3-Ethyl-4-methylpentane (d) 2-Methyl-3-ethylpentane
- In Wolf-Kishner's reduction, aldehydes are reduced to alkanes in the presence of:
 (a) $\text{Pd}(\text{BaSO}_4)$ (b) Pd-charcoal
 (c) $\text{N}_2\text{H}_4/\text{KOH}$ (200°C) (d) Zn-Hg/HCl
- On industrial scale, ethyne can be prepared from:
 (a) Vicinal dihalides (b) Tetrahalides (c) $\text{CaC}_2 + \text{H}_2\text{O}$ (d) All

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

SECTION-I

- Q.2: Give brief answers to the following questions: (20)**
- Write structural formulas of: (i) 3-Methyl-1-pentene-4-yne (ii) But-1-en-3-yne,
 - What is hydrogenolysis? Give an example.
 - Discuss the inertness of sigma bond in alkanes.
 - How will you convert methane into ethane?
 - How is 2-Butyne converted into cis-2-Butene?
 - What is Raney nickel? What is its use?
 - What is mustard gas? How is it produced?
 - How is ethyne prepared from calcium carbide on industrial scale?
 - Why are terminal alkynes acidic in nature?
 - Give four uses of ethyne.

SECTION-II

NOTE: Attempt All Questions: (12)

Q.3: Write a note on halogenation of alkanes by explaining all the steps involved.

Q.4: Give the reactions of ethene with:

- (i) O_3 (ii) HOCl (iii) KMnO_4 (iv) Conc. H_2SO_4

Q.5: Describe with examples the acidic nature of alkynes.