

NAME:		ROLL NO:		TIME:	15: MIN
SUB:	Chemistry	Date:		CLASS:	1 st Year
SYLLABUS	Chp. 11 (Hydrocarbons)	T. MARKS	12	OBT. M	

zQ. 1 Choose the Correct Answer. Cutting, Erasing, Double Selection is Strictly Prohibited. (1x12=12)

- An alkene undergoes ozonolysis followed by reduction with zinc dust and water to yield propanone and methanol. The alkene is:**
 (A) 1-Butene (B) 2-Butene (C) 2-Methylpropene (D) 2-Methyl-2-butene
- Which of the following reagents is typically used for the acid-catalyzed hydration of alkenes to form alcohols?**
 (A) H_2 / Ni (B) O_3 followed by Zn / H_2O (C) Dilute H_2SO_4 (D) Br_2 in CCl_4
- Halogenation of alkanes is an example of:**
 (A) Electrophilic substitution (B) Nucleophilic substitution
 (C) Free-radical substitution (D) Oxidation
- Which of the following reactions can an alkane undergo?**
 (A) Addition (B) Substitution (C) Polymerization (D) Nitration
- What is the first step in the electrophilic addition reaction of alkenes?**
 (A) Formation of a carbocation
 (B) Attack by a nucleophile
 (C) Attack by an electrophile on the double bond
 (D) Formation of a free radical
- The addition of unsymmetrical reagent to an unsymmetrical alkene is in accordance with the rule/principle?**
 (A) Markovnikov's Rule (B) Hund's Rule (C) Le Chatelier's Principle (D) Aufbau Principle
- The most stable carbonium ion among the following is:**
 (A) CH_3^+ (B) $CH_3CH_2^+$ (C) $(CH_3)_2CH^+$ (D) $(CH_3)_3C^+$
- Markownikov's rule is applicable to:**
 (A) $CH_2 = CH_2$ (B) $CH_3 - CH_2 - CH_2$ (C) $CH_3 - CH = CH - CH_3$ (D) $(CH_3)_2C = CH_2$
- What intermediate is formed during the electrophilic addition of HBr to an alkene?**
 (A) Carbocation (B) Carbanion (C) Radical (D) Epoxide
- The enhanced stability of conjugated dienes compared to isolated dienes is primarily attributed to:**
 (A) Inductive effects of the double bonds.
 (B) Increased s-character of the hybridized orbitals.
 (C) Delocalization of π electrons across the conjugate system.
 (D) Steric hindrance between the double bonds.
- Which of the following carbocations would be the least stable?**
 (A) $(CH_3)_2CH^+$ (B) $CH_3CH_2^+$ (C) CH_3^+ (D) $(CH_3)_3C^+$
- Which of the following is the repeating unit in the polymer poly (ethane) (polyethylene)?**
 (A) $-CH_2CH_3-$ (B) $-CH = CH-$ (C) $-CH_2CH_2-$ (D) $-CH(CH_3)CH_2-$



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1ST YEAR SOLVED EXERCISE MCQs



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Answer Key

1	C	2	C	3	C	4	B
5	C	6	A	7	D	8	D
9	A	10	C	11	C	12	C