

Lakshya NEET (2025)

Organic Chemistry

DPP: 4

Haloalkanes and Haloarenes

Q1 Ethylene on reaction with bromine forms which among the following product?

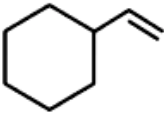
- (A) $\text{BrH}_2\text{C} - \text{CH}_2\text{Br}$
 (B) $\text{BrH}_2\text{C} = \text{CH}_2\text{Br}$
 (C) $\text{Br}_2\text{HC} = \text{CHBr}_2$
 (D) $\text{Br}_2\text{HC} - \text{CHBr}_2$

Q2 Give the major product of the following reaction
 $3,3\text{-dimethyl-1-butene} + \text{HCl} \rightarrow \text{Major}$

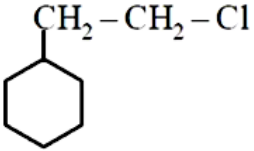
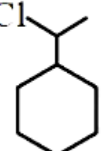
- (A) 2-chloro-3,3-dimethyl butane
 (B) 2-chloro-2,3-dimethyl butane
 (C) 1,2-dichloro-3,3-dimethylbutane
 (D) 1-chloro-3,3-dimethylbutane

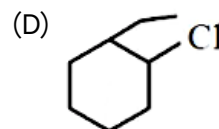
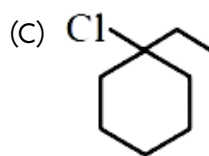
Q3 $\text{H}_3\text{C} - \text{CH} = \text{CH}_2 \xrightarrow[\text{HCl}]{\text{Peroxide}} \text{Product,}$
 the intermediate of reaction is:

- (A) $\text{CH}_3 - \dot{\text{C}}\text{H} - \text{CH}_3$
 (B) $\text{CH}_2 - \text{CH}_2 - \dot{\text{C}}\text{H}_2$
 (C) $\text{CH}_3 - \overset{\oplus}{\text{C}}\text{H} - \text{CH}_3$
 (D) $\text{CH}_3 - \text{CH}_2 - \overset{\oplus}{\text{C}}\text{H}_2$

Q4  $\xrightarrow{\text{HCl}}$ Major Product :

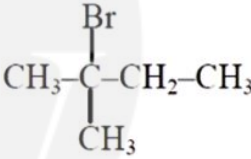
Predict the major product

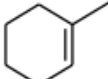
- (A) 
 (B) 



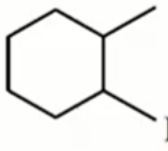
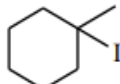
Q5 $\text{CH}_3 - \underset{\text{CH}_3}{\text{CH}} - \text{CH} = \text{CH}_2 + \text{HBr} \rightarrow \text{X}$

X is-

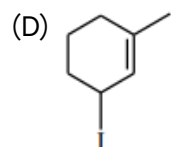
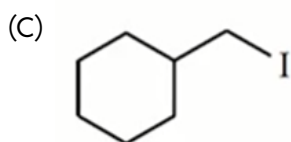
- (A) $\text{CH}_3 - \underset{\text{CH}_3}{\text{CH}} - \text{CH}_2\text{CH}_2\text{Br}$
 (B) 
 (C) $\text{CH}_3 - \underset{\text{CH}_3}{\text{CH}} - \underset{\text{Br}}{\text{CH}} - \text{CH}_3$
 (D) None is correct.

Q6  $\xrightarrow{\text{HI}}$ Major product is -

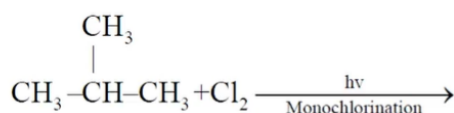
Identify the major product

- (A) 
 (B) 

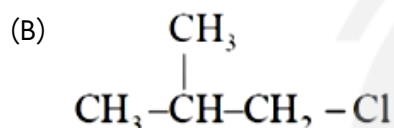
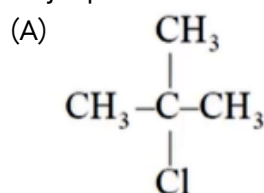




Q7



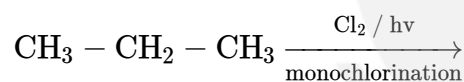
Major product is



(C) Equimolar mixture of (A) & (B)

(D) $\text{CH}_3 - \text{CH}_2 - \text{CH}_3$

Q8



Major product is

(A) $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{Cl}$ (B) $\text{CH}_3 - \text{CH}(\text{CH}_3) \text{Cl}$ (C) $\text{CH}_3 - \text{Cl}$ (D) $\text{CH}_3\text{CH}_2 - \text{Cl}$

Q9 2-Methyl butane on reacting with bromine in the presence of sunlight gives mainly

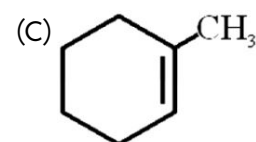
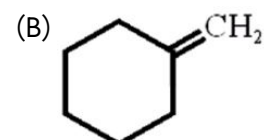
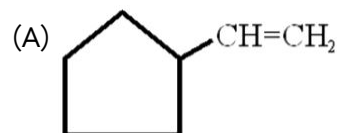
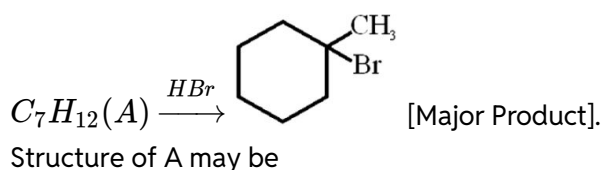
(A) 1-Bromo-3-methylbutane

(B) 2-Bromo-3-methylbutane

(C) 2-Bromo-2-methylbutane

(D) 1-Bromo-2-methylbutane

Q10



(D) All of these

Q11 What will be the major product when Vinyl chloride reacts with HCl

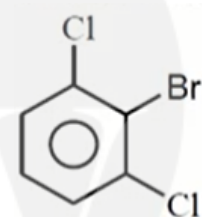
(A) 1, 1-dichloroethane

(B) 1, 2-dichloroethane

(C) Tetrachloro ethylene

(D) Mixture of 1,2 and 1,1 -dichloroethane

Q12 IUPAC name of



(A) 2-Bromo-1,3-dichlorobenzene

(B) 2-Bromo-2,6-dichlorobenzene

(C) 1,3-Dichloro-2-bromobenzene

(D) 1,3-Dichloro benzyl bromide.

Q13 Number of Sigma bonds present in B.H.C. (Benzene hexachloride)

(A) 6

(B) Zero

(C) 18

(D) 12



Answer Key

Q1 (A)

Q2 (B)

Q3 (C)

Q4 (C)

Q5 (B)

Q6 (B)

Q7 (B)

Q8 (B)

Q9 (C)

Q10 (D)

Q11 (A)

Q12 (A)

Q13 (C)



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