

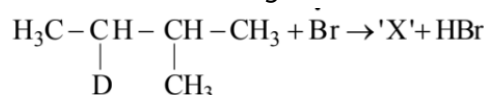
Lakshya NEET (2025)

Organic Chemistry

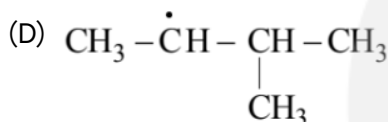
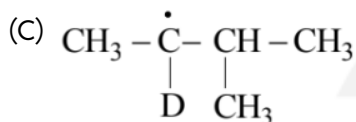
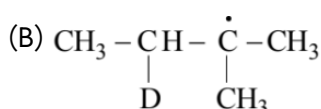
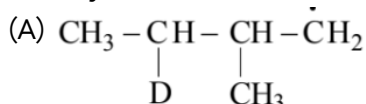
DPP: 5

Haloalkanes and Haloarenes

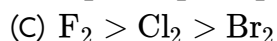
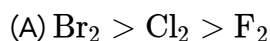
Q1 Consider the following reaction



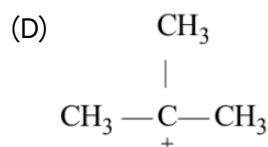
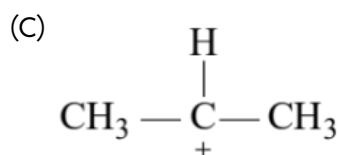
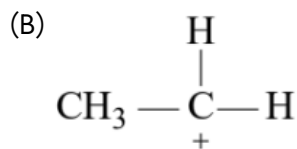
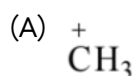
Identify the structure of the major product X



Q2 The order of reactivity of halogens in aliphatic substitution reaction is



Q3 Which of the following has maximum stability



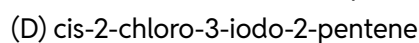
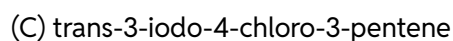
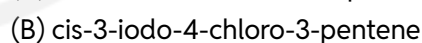
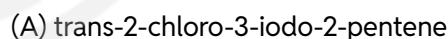
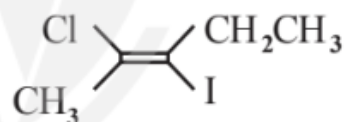
Q4 Which of the following is not formed by the reaction of Cl_2 on CH_4 in sunlight



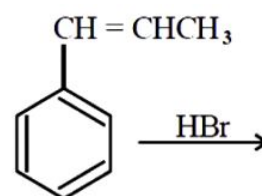
Q5 Halogenation of alkanes is an example of

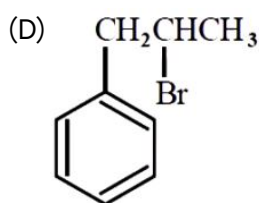
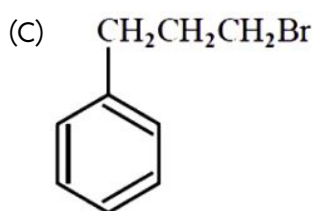
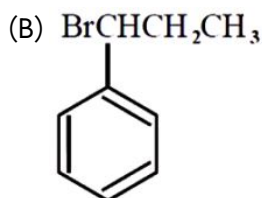
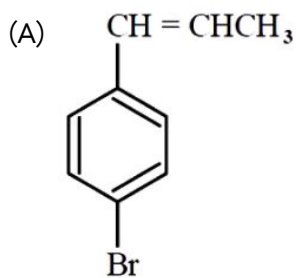


Q6 The IUPAC name of the following compound is



Q7 The major product of the following reaction is

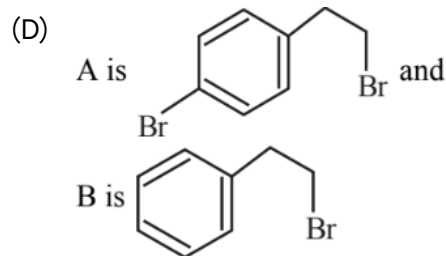
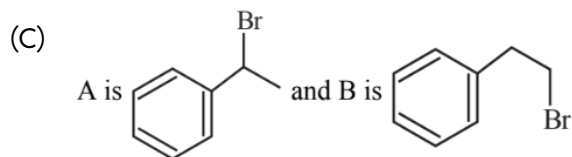
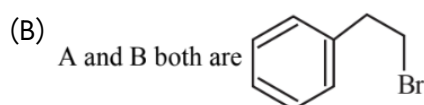
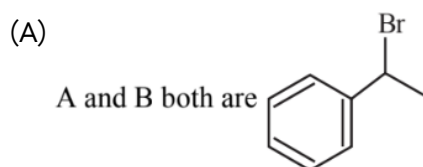
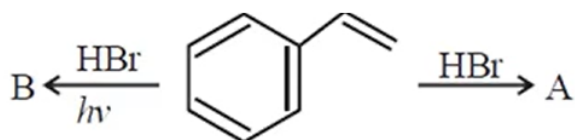




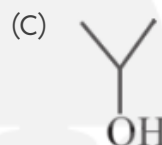
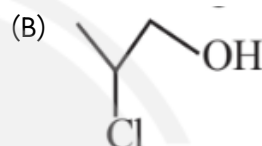
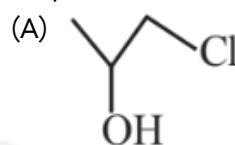
Q8 3-Phenylpropene reacts with HBr in the presence of peroxide, the major product formed is

- (A) 2-bromo-1-phenylpropane
 (B) 1, 2-dibromo-3-phenylpropane
 (C) 3-(o-bromophenyl) propene
 (D) 1-bromo-3-phenylpropane

Q9 Observe the following reactions and predict the nature of A and B.



Q10 Propene on reaction with chlorine water gives



Q11 $\text{CH}_3\text{CH}_2-\text{CH}=\text{CH}_2 + \text{HBr} \xrightarrow{\text{ROOR}} \text{[X]}$
 Major

+ [Y]
 Minor

[X] and [Y] respectively are

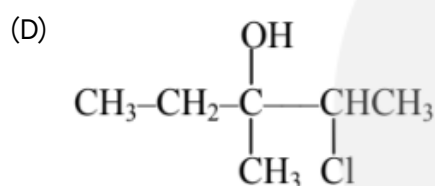
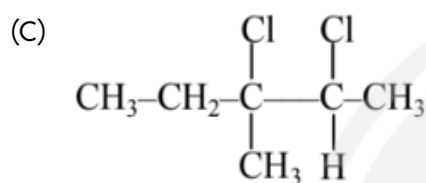
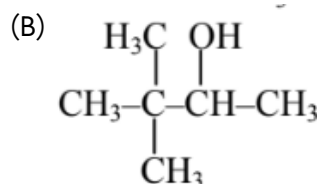
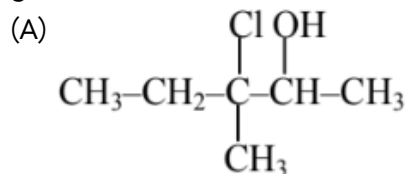
- (A) $\text{BrCH}_2\text{CH}_2\text{CH}=\text{CH}_2$ and $\text{C}_2\text{H}_5-\text{CHBr}-\text{CH}_3$
 (B) $\text{C}_2\text{H}_5-\text{CH}_2\text{CH}_2-\text{Br}$ and $\text{Br}-\text{CH}_2\text{CH}_2-\text{CH}=\text{CH}_2$
 (C) $\text{C}_2\text{H}_5-\text{CH}_2-\text{CH}_2\text{Br}$ and $\text{C}_2\text{H}_5-\text{CHBr}-\text{CH}_3$
 (D) $\text{C}_2\text{H}_5\text{CHBr}-\text{CH}_3$ and $\text{C}_2\text{H}_5-\text{CH}_2-\text{CH}_2\text{Br}$

Q12 Reactivity of alkenes towards HX increases in the order

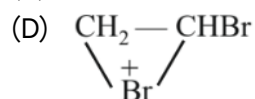
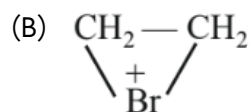
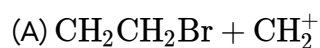


- (A) But-2-ene > Propene > Ethene
 (B) But-2-ene > Ethene > Propene
 (C) Ethene > Propene > But-2-ene
 (D) None of these

Q13 3-Methyl-2-pentene on reaction with HOCl gives



Q14 Ethylene reacts with Br_2 to give 1, 2-dibromoethane. The anti-addition takes place due to the formation of the intermediate



Answer Key

Q1 (B)
Q2 (C)
Q3 (D)
Q4 (D)
Q5 (C)
Q6 (A)
Q7 (B)

Q8 (D)
Q9 (C)
Q10 (A)
Q11 (C)
Q12 (A)
Q13 (D)
Q14 (B)



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