

Lakshya NEET (2025)

Organic Chemistry

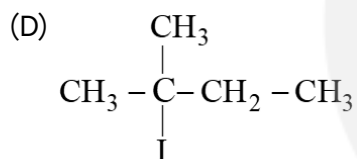
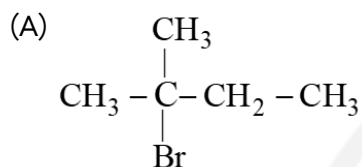
DPP: 8

Haloalkanes and Haloarenes

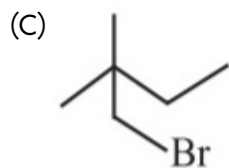
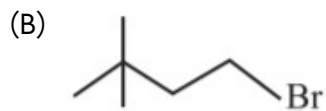
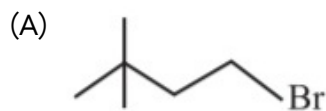
Q1 The unimolecular elimination involves the formation of

- (A) A free radical (B) A carbanion
(C) A carbocation (D) Biradical

Q2 Which one of the following compounds undergoes E_1 reaction readily?



Q3 Which of the following cannot undergo E_2 reaction?



(D) None of these

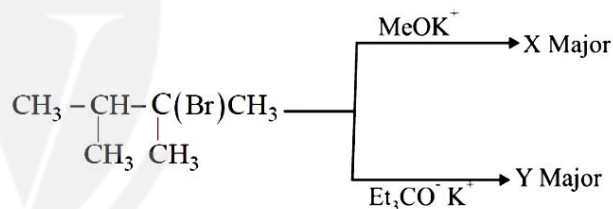
Q4 2-Bromopentane is heated with potassium ethoxide in ethanol. The major product obtained is

- (A) 2-Ethoxypentane
(B) Pent-1-ene
(C) Cis-pent-2-ene
(D) Trans-pent-2-ene

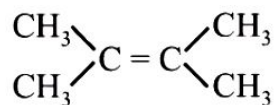
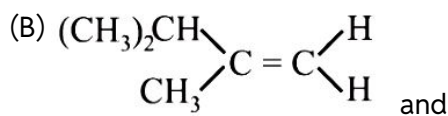
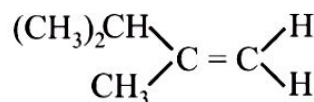
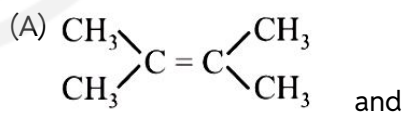
Q5 The reactivity of alkyl halides in E_2 reaction follows the order

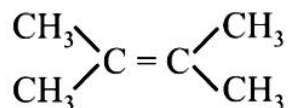
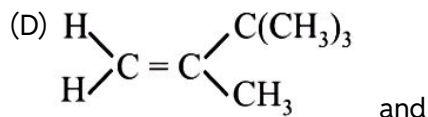
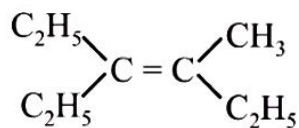
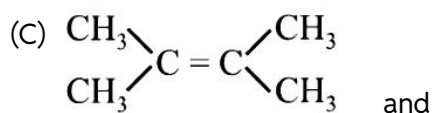
- (A) $\text{R-I} < \text{R-Br} < \text{R-Cl} < \text{R-F}$
(B) $\text{R-F} < \text{R-Cl} < \text{R-Br} < \text{R-I}$
(C) $\text{R-I} > \text{R-Cl} > \text{R-Br} < \text{R-F}$
(D) $\text{R-I} < \text{R-Br} < \text{R-F} < \text{R-Cl}$

Q6

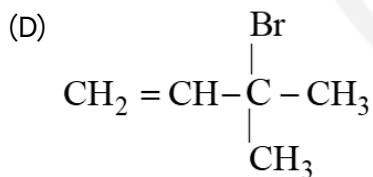
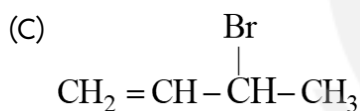
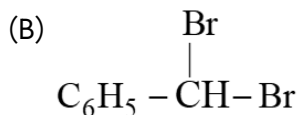
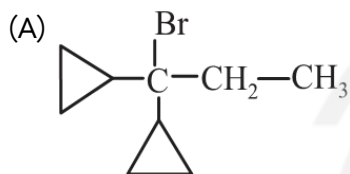


X and Y are respectively:

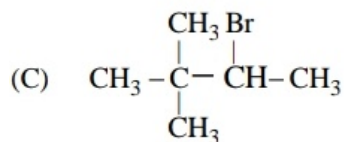
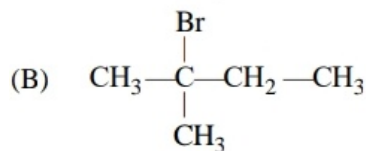
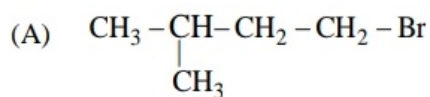




Q7 Which of the following will be most reactive for E_1 reaction?



Q8 Arrange the following A, B and C in order of their reactivity towards E_2 elimination



(A) $A > B > C$

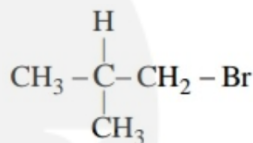
(B) $B > A > C$

(C) $B > C > A$

(D) $C > B > A$

Q9 Arrange the following alkyl halides in decreasing order of the rate of elimination reaction with alcoholic KOH.

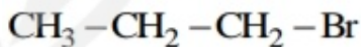
(1)



(2)



(3)



(A) $1 > 2 > 3$

(B) $3 > 2 > 1$

(C) $2 > 3 > 1$

(D) $1 > 3 > 2$

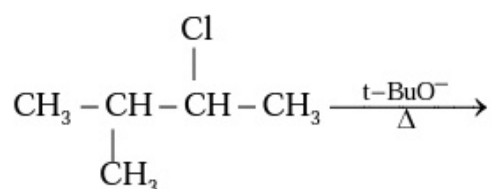
Q10 2-Chlorobutane on treatment with alcoholic KOH/ Δ gives mainly:

(A) 2-butene (B) 1-butene

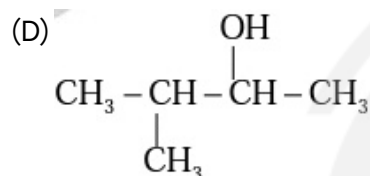
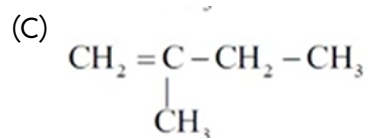
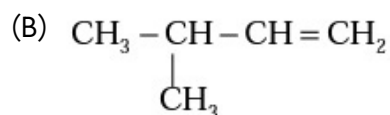
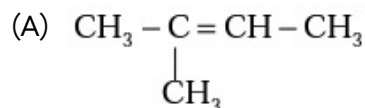
(C) 2-butanol (D) 1-butyne



Q11



Major product is:



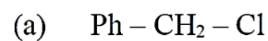
Q12 In the reaction $\text{CH}_3\text{CH}_2\text{I} \xrightarrow{\text{Alc. KOH}} \text{X} \xrightarrow{\text{Br}_2} \text{Y} \xrightarrow{\text{KCN}} \text{Z}$, Z is:

- (A) $\text{CH}_3\text{CH}_2\text{CN}$
 (B) $\text{CNCH}_2\text{CH}_2\text{CN}$
 (C) $\text{BrCH}_2\text{CH}_2\text{CN}$
 (D) $\text{BrCH} = \text{CHCN}$

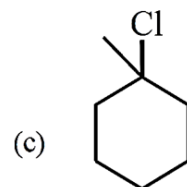
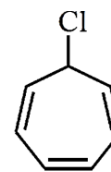
Q13 Elimination reaction generally occurs with the formation of

- (A) One sigma bond
 (B) one pi bond
 (C) one sigma and one pi bond
 (D) None of the above

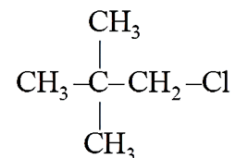
Q14 Arrange the following compounds in decreasing order of reactivity in $\text{S}_{\text{N}}1$ reaction



(b)



(d)

(A) $a > c > b > d$ (B) $c > d > b > a$ (C) $a > b > c > d$ (D) $b > a > c > d$ 

Answer Key

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

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



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