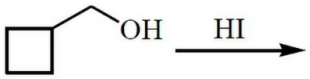
Lakshya NEET (2025)

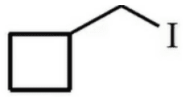
Organic Chemistry

Haloalkanes and Haloarenes

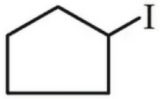
DPP: 2

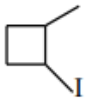
Q1 Major Product of the following reaction is



(A) 

(B) 

(C) 

(D) 

Q2 Which of the following leads to the formation of an alkyl halide

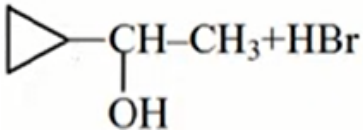
(A) $C_2H_5OH \xrightarrow{\text{Red P}+Br_2}$

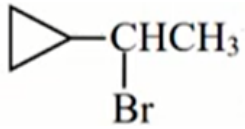
(B) $C_2H_5OH \xrightarrow{SOCl_2}$

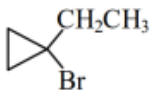
(C) $C_2H_5OH \xrightarrow{KBr+\text{ Conc. }H_2SO_4}$

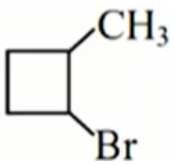
(D) All

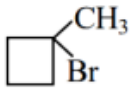
Q3 In the reaction the product formed is



(A) 

(B) 

(C) 

(D) 

Q4 Which reagent cannot be used to prepare an alkyl halide from alcohol?

(A) $HCl + ZnCl_2$

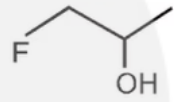
(B) $NaCl$

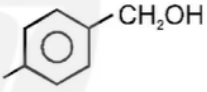
(C) PCl_5

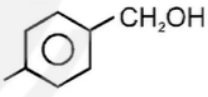
(D) $SOCl_2$

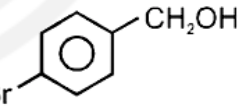
Q5 The correct order of reactivity of following alcohol:

towards conc. $HCl/ZnCl_2$ is

I 

II 

III 

IV 

(A) III > I > IV > II

(B) III > I > II > IV

(C) · I > III > IV > II

(D) I > III > II > IV

Q6 What is the correct order of reactivity of alcohols in the following reaction?

$$R - OH + HCl \xrightarrow{ZnCl_2} R - Cl + H_2O$$

(A) $1^\circ > 2^\circ > 3^\circ$

(B) $1^\circ < 2^\circ > 3^\circ$

(C) $3^\circ > 2^\circ > 1^\circ$

(D) $3^\circ > 1^\circ > 2^\circ$

Q7 The compound which gives turbidity immediately with Lucas reagent at room temperature is

(A) butan-1-ol

(B) butan-2-ol

(C) 2-methylpropan-2-ol

(D) 2-methylpropan-1-ol

Q8 Alcohols given below follow which of the following mechanism with conc. HCl anhydrous $ZnCl_2$

(I) CH_3OH,

(II) CH_3CH_2OH,

(III) CH_3CHCH_3 (OH)

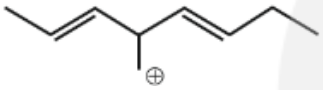
(A) $S_N1,\ S_N2,\ S_N2$

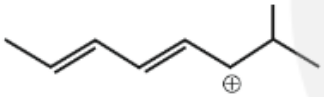
(B) $S_N2,\ S_N2,\ S_N1$

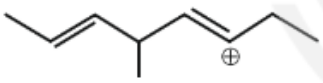
(C) $S_N2,\ S_N1,\ S_N1$

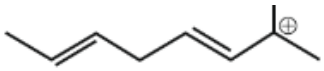
(D) $S_N1,\ S_N1,\ S_N2$

Q9 Which carbocation is the most stable?

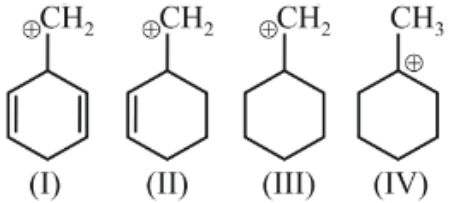
(A) 

(B) 

(C) 

(D) 

Q10 Arrange in order of stability



(A) $1 > II > III > IV$

(B) $I > II > IV > III$

(C) $III > II > I > IV$

(D) $IV > III > II > I$

Q11 Which is the least stable carbocation?

(I) $CH_3CH_2\overset{+}{C}H_2$ (II) $CH_3\overset{+}{C}HCH_3$

(III) $(CH_3)_3\overset{+}{C}$ (IV) $(CH_3)_2H\overset{+}{C}CH_2$

(A) I (B) II

(C) III (D) IV

Q12 Amongst the given cations, the most stable carbonium ion is

(A) $\overset{+}{C}H_3$

(B) $(CH_3)_3\overset{+}{C}$

(C) $CH_3\overset{+}{C}H_2$

(D) $(CH_3)_2\overset{+}{C}H$

Q13 Consider the following carbocation

(I) $CH_3-\overset{\oplus}{C}H_2$

(II) $CH_2=\overset{\oplus}{C}H$

(III) $CH_2=CH-\overset{\oplus}{C}H_2$

(IV) $C_6H_5-\overset{\oplus}{C}H_2$

(A) IV > III > I > II

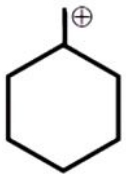
(B) IV > III > II > I

(C) III > IV > II > I

(D) III > IV > I > II

Q14 Which is the correct stability order of following intermediates

(a)



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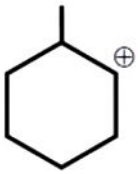

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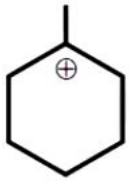

(A) $a > b > c$

(B) a > c > b

(C) c > b > a

(D) b > a > c

Answer Key

Q1	(C)
Q2	(D)
Q3	(A)
Q4	(B)
Q5	(A)
Q6	(C)
Q7	(C)
Q8	(B)
Q9	(B)
Q10	(D)
Q11	(D)
Q12	(B)
Q13	(A)
Q14	(C)