

## Lakshya NEET (2025)

## Organic Chemistry

## Alcohols, Phenols and Ethers

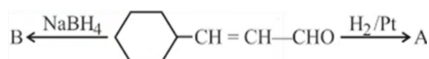
DPP: 3

Q1 The major product of the following reaction is



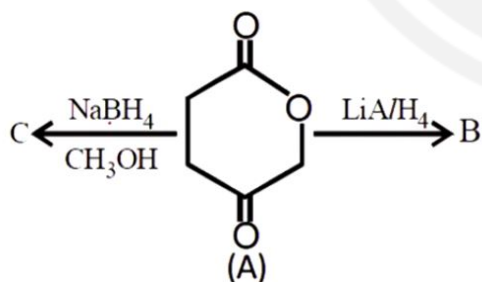
- (A)  $\text{CH}_3\text{CH}=\text{CHCH}_2\text{OH}$   
 (B)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$   
 (C)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CO}_2\text{CH}_3$   
 (D)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$

Q2 A and B are

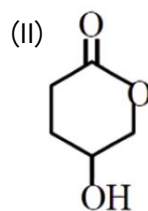
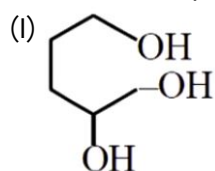


- (A)  $\text{Cyclohexane ring}-\text{CH}_2\text{CH}_2\text{CHO}$   
 $\text{Cyclohexane ring}-\text{CH}=\text{CH}-\text{CH}_2\text{OH}$   
 (B)  $\text{Cyclohexane ring}-\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$ ,  
 $\text{Cyclohexane ring}-\text{CH}=\text{CH}-\text{CH}_2\text{OH}$   
 (C)  $\text{Cyclohexane ring}-\text{CH}=\text{CH}-\text{CH}_2\text{OH}$  in both cases  
 (D)  $\text{Cyclohexane ring}-\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$  in both cases

Q3

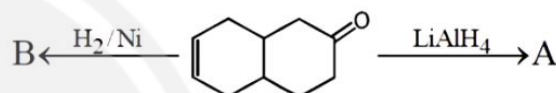


B and C are respectively



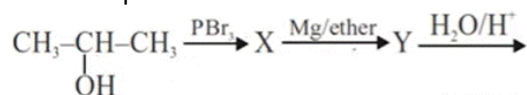
- (A) B is I and C is II  
 (B) Both II and I  
 (C) I in both cases  
 (D) II in both cases

Q4 What are A and B in the following ?



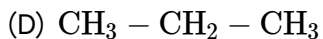
- (A) in all cases  
 (B) in all cases  
 (C) in all cases  
 (D) A =   
 B =

Q5 The final product is

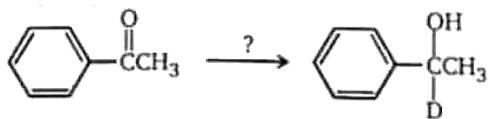


- (A)  $\text{CH}_3-\underset{\text{CH}_3}{\text{CH}}-\text{OH}$   
 (B)  $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{OH}$   
 (C)  $\text{CH}_3-\underset{\text{CH}_3}{\text{CH}}-\text{O}-\underset{\text{CH}_3}{\text{CH}}-\text{CH}_3$



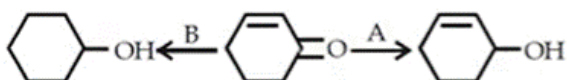


- Q6 Which of the following reagents would carry out the following transformation? ( $\text{D} = {}^2\text{H}$ )



- (A)  $\text{NaBD}_4$  in  $\text{CH}_3\text{OH}$   
 (B)  $\text{LiAlH}_4$ , then  $\text{D}_2\text{O}$   
 (C)  $\text{NaBD}_4$  in  $\text{CH}_3\text{OD}$   
 (D)  $\text{LiAlD}_4$ , then  $\text{D}_2\text{O}$

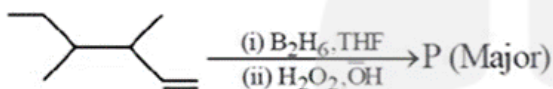
Q7



A and B are respectively:

- (A)  $\text{H}_2/\text{Pt}$ ,  $\text{LiAlH}_4/\text{H}_2\text{O}$   
 (B)  $\text{H}_2/\text{Pt}$ ,  $\text{H}_2/\text{Pt}$   
 (C)  $\text{LiAlH}_4/\text{H}_2\text{O}$ ,  $\text{LiAlH}_4/\text{H}_2\text{O}$   
 (D)  $\text{LiAlH}_4/\text{H}_2\text{O}$ ,  $\text{H}_2/\text{Pt}$

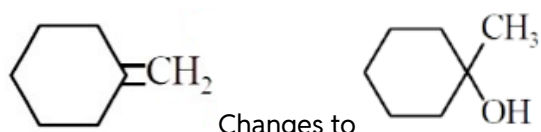
Q8



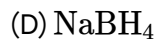
Major product P is

- (A)
- (B)
- (C)
- (D)

Q9



- (A)  $\text{H}_3\text{O}^+$   
 (B)  $\text{BH}_3 \cdot \text{THF}/\text{H}_2\text{O}_2, \text{NaOH}$



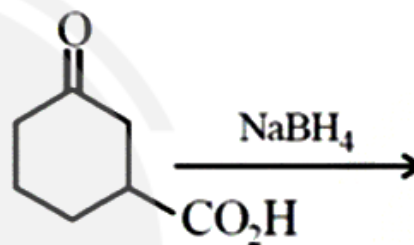
- Q10 Select the incorrect statement about hydroboration-oxidation.

- (A) Addition is against Markovnikovs rule  
 (B) Intermediate is a carbocation  
 (C) It does not involve rearrangement  
 (D) Addition of boron and hydrogen to double bond is a syn-addition

- Q11  $\text{LiAlH}_4$  converts acetic acid into

- (A) Acetaldehyde (B) Methane  
 (C) Ethyl alcohol (D) Methyl alcohol

- Q12 What is the major product of the following reaction?



- (A)
- (B)
- (C)
- (D)

- Q13  $\text{C}_6\text{H}_5\text{CHO} \xrightarrow{\text{LiAlH}_4}$  Product  
 Product will be:

- (A) benzene (B) benzyl alcohol



(C) phenol

(D) None of these

**Q14** Identify the reagent used in the following conversion

(A)  $\text{LiAlH}_4$ (B)  $\text{NaBH}_4$ 

(C) both

(D) none

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## Answer Key

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

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



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