

Lakshya NEET (2025)

Organic Chemistry

Alcohols, Phenols and Ethers

DPP: 6

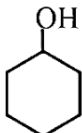
Q1 The hydroboration of 2-methyl propene yields

- (A) 1° alcohol
 (B) 2° alcohol
 (C) 3° alcohol
 (D) None

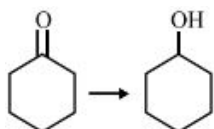
Q2 Which of the following alcohols will give the most stable carbocation during dehydration?

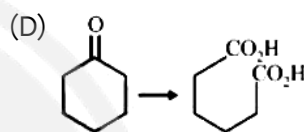
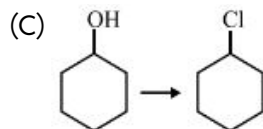
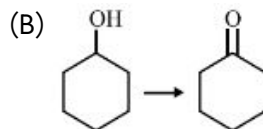
- (A) 2-methyl-1-propanol
 (B) 2-methyl-2-propanol
 (C) 1-Butanol
 (D) 2-Butanol

Q3 Which alcohol on heating with Cu at 573 K gives alkene as major product?

- (A) $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$
 (B) $\begin{array}{c} \text{C}_2\text{H}_5 \\ | \\ \text{CH}_3 - \text{CH}_2 - \text{C} - \text{OH} \\ | \\ \text{C}_2\text{H}_5 \end{array}$
 (C) $\begin{array}{c} \text{CH}_3 - \text{CH} - \text{CH}_3 \\ | \\ \text{OH} \end{array}$
 (D) 

Q4 PCC (Pyridinium chloro chromate) is a good reagent for which of the following transformations?

- (A) 



Q5 When ethyl alcohol reacts with acetic acid, the products formed are

- (A) Sodium ethoxide + hydrogen
 (B) Ethyl acetate + water
 (C) Ethyl acetate + soap
 (D) Ethyl alcohol + water

Q6 Reaction of alcohol does not show cleavage of R – O linkage

- (A) $\text{ROH} + \text{PCl}_5$
 (B) $\text{ROH} + \text{SOCl}_2$
 (C) $\text{ROH} + \text{HCl}$
 (D) $\text{ROH} + \text{Na}$

Q7 The product of reaction, $\text{CH}_3\text{CH}_2\text{OH} \xrightarrow{\text{Cu}/300^\circ\text{C}}$

- (A) C_2H_6
 (B) CH_3COCH_3
 (C) CH_3CHO
 (D) CH_3COOH

Q8 Which of the following alcohols gives 2-butene on dehydration by conc. H_2SO_4 ?

- (A) 2-methyl propene-2-ol
 (B) 2-methyl 1-propanol



- (C) Butane-2-ol
(D) Butane

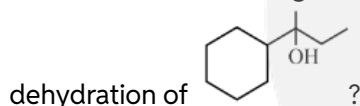
Q9 Order of esterification of alcohols are

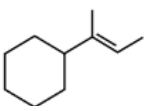
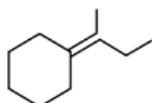
- (A) $3^\circ > 1^\circ > 2^\circ$
(B) $2^\circ > 3^\circ > 1^\circ$
(C) $1^\circ > 2^\circ > 3^\circ$
(D) None of these

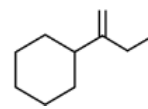
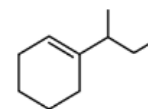
Q10 Acid-catalysed dehydration of t-butanol is faster than that of n-butanol because

- (A) Tertiary carbocation is more stable than primary carbocation
(B) Primary carbocation is more stable than tertiary carbocation
(C) T-butanol has a higher boiling point
(D) Rearrangement takes place during dehydration of t-butanol

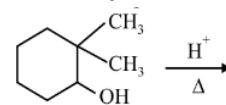
Q11 Which of the following is not the product of

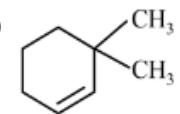
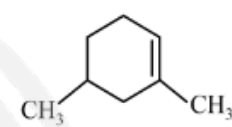
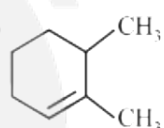
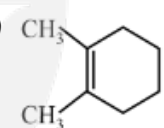


- (A) 
(B) 

- (C) 
(D) 

Q12 Find the product of the given reaction



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

Q13 Which of the following reagents cannot be used to oxidize primary alcohols to aldehydes?

- (A) CrO_3 in anhydrous medium
(B) KMnO_4 in acidic medium
(C) Pyridinium chlorochromate
(D) Heat in the presence of Cu at 573 K



Answer Key

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

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



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