

Lakshya NEET (2025)

Organic Chemistry

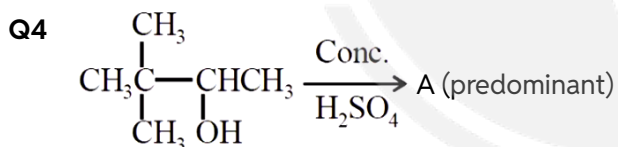
Alcohols, Phenols and Ethers

DPP: 5

- Q1** Isopropyl alcohol on oxidation forms
 (A) Acetone (B) Ether
 (C) Ethylene (D) Acetaldehyde

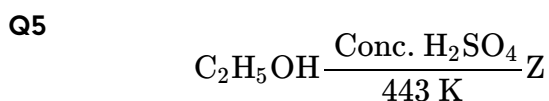
- Q2** What reagent(s) can be used to convert 2-methyl pentanol into 2-methyl pentanal?
 (A) $\text{Na}_2\text{Cr}_2\text{O}_7$
 (B) LiAlH_4
 (C) CrO_3 -pyridine
 (D) KMnO_4

- Q3** Conversion of ethyl alcohol into acetaldehyde is an example of:
 (A) hydrolysis
 (B) oxidation
 (C) reduction
 (D) molecular rearrangement



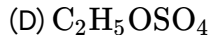
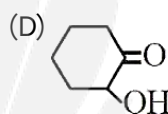
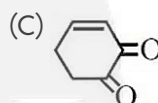
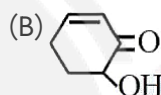
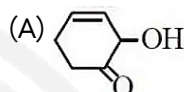
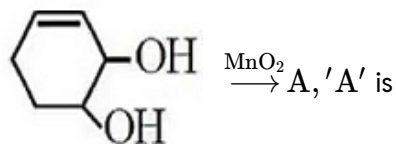
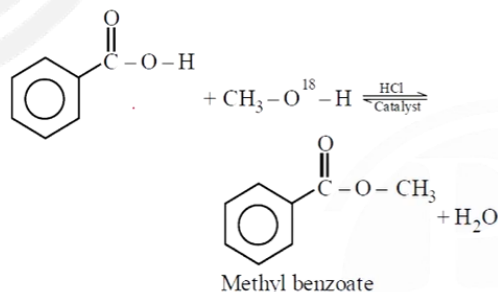
- (A) $(\text{CH}_3)_3\text{CCH}=\text{CH}_2$
 (B) $(\text{CH}_3)_2\text{C}=\text{C}(\text{CH}_3)_2$
 (C) $\begin{array}{c} \text{CH}_2=\text{CCH}_2\text{CH}_2\text{CH}_3 \\ | \\ \text{CH}_3 \end{array}$

(D) None is correct



In the above reaction Z is identified as

- (A) $\text{C}_2\text{H}_5-\text{O}-\text{C}_2\text{H}_5$
 (B) $\text{C}_2\text{H}_5\text{CHO}$
 (C) $\text{CH}_2=\text{CH}_2$

**Q6****Q7**

The labelled $-\text{O}^{18}$ will be in:

- (A) H_2O
 (B) Methyl benzoate
 (C) Both (1) and (2)
 (D) Benzoic acid

- Q8** Which of the following reagents cannot be used to oxidise primary alcohols to aldehydes?
 (A) CrO_3 in anhydrous medium

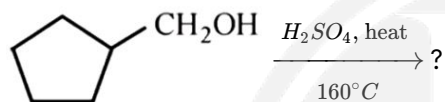


- (B) KMnO_4 in acidic medium
 (C) Pyridinium chlorochromate
 (D) Heat in the presence of Cu at 573 K

Q9 Ethanol when reacted with PCl_5 gives A, POCl_3 and HCl . A reacts with silver nitrite to form B (major product) and AgCl . A and B respectively are

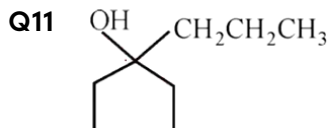
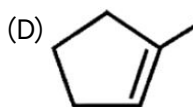
- (A) $\text{C}_2\text{H}_5\text{Cl}$ and $\text{C}_2\text{H}_5\text{NO}_2$
 (B) C_2H_6 and $\text{C}_2\text{H}_5\text{NO}_2$
 (C) $\text{C}_2\text{H}_5\text{Cl}$ and $\text{C}_2\text{H}_5\text{OC}_2\text{H}_5$
 (D) C_2H_6 and $\text{C}_2\text{H}_5\text{OC}_2\text{H}_5$

Q10 In this reaction



The major products formed are

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



Here R is

- (A) ethyl cyclohexane
 (B) 2-propyl cyclopentene
 (C) 2-propyl cyclopentanol
 (D) 1-propyl cyclopentanol

Q12 In which of the following reactions hydrogen gas will not be evolved?

- (A) $\text{CH}_3\text{CH}_2\text{OH} \xrightarrow{\text{Na}}$
 (B) $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH} \xrightarrow{\text{Na}}$
 (C)
 (D)

Answer Key

- Q1** (A)
Q2 (C)
Q3 (B)
Q4 (B)
Q5 (C)
Q6 (B)

- Q7** (B)
Q8 (B)
Q9 (A)
Q10 (A)
Q11 (C)
Q12 (D)

