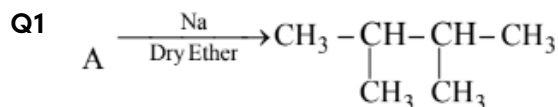


Lakshya NEET (2025)

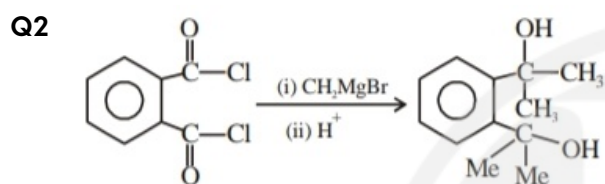
Organic Chemistry

DPP: 12

Haloalkanes and Haloarenes



- (A) Butyl bromide
 (B) Isopropyl bromide
 (C) Propyl bromide
 (D) Secbutyl bromide



Number of moles of CH_3MgBr consumed in above reaction is

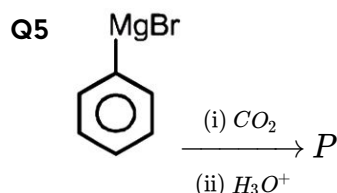
- (A) 2 (B) 4
 (C) 6 (D) 8

Q3 $(\text{CH}_3)_3\text{CMgCl}$ on reaction with D_2O , produces

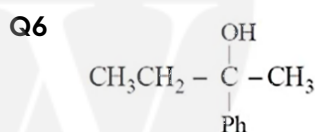
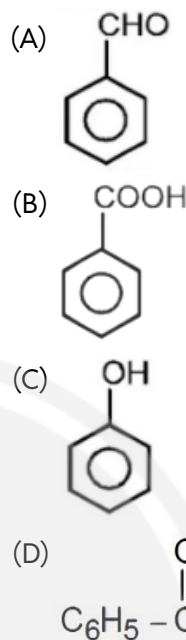
- (A) $(\text{CH}_3)_3\text{CD}$
 (B) $(\text{CH}_3)_3\text{COD}$
 (C) $(\text{CD}_3)_3\text{CD}$
 (D) $(\text{CD}_3)_3\text{COD}$

Q4 The reaction of ethyl magnesium iodide with acetaldehyde gives after acidification

- (A) 2-Butanol
 (B) 1-Butanol
 (C) 2-Methyl-2-propanol
 (D) 2-Methylpropanol



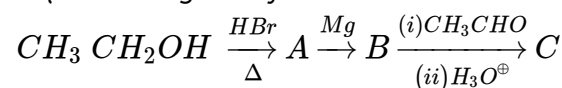
In the above reaction product 'P' is



cannot be prepared by

- (A) $\text{CH}_3\text{CH}_2\text{COCH}_3 + \text{PhMgX}$
 (B) $\text{PhCOCH}_3 + \text{CH}_3\text{CH}_2\text{MgX}$
 (C) $\text{PhCOCH}_2\text{CH}_3 + \text{CH}_3\text{MgX}$
 (D) $\text{HCHO} + \text{PhCH}(\text{CH}_3)\text{CH}_2\text{MgX}$

Q7 The compounds A, B and C in the reaction sequence are given by the set



- (A) $\text{CH}_3\text{CH}_2\text{Br}$, $\text{CH}_3\text{CH}_2\text{MgBr}$, $(\text{CH}_3)_3\text{C} - \text{OH}$
 (B) $\text{CH}_3\text{CH}_2\text{Br}$, $(\text{CH}_3\text{CH}_2)_2\text{Mg}$, $(\text{CH}_3)_2\text{CHCH}_2\text{OH}$
 (C) $\text{CH}_3\text{CH}_2\text{Br}$, $\text{CH}_3\text{CH}_2\text{MgBr}$, $\text{CH}_3\text{CH}(\text{OH})\text{CH}_2\text{CH}_3$
 (D) CH_3CHBr_2 , $\text{CH}_3\text{CH}(\text{MgBr})_2$, $\text{CH}_3\text{CH}(\text{OH})\text{CH}_3$



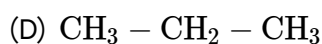
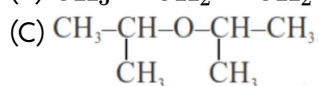
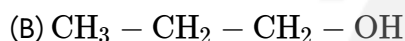
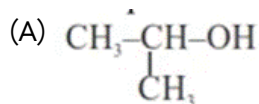
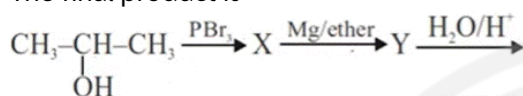
Q8 To prepare 3-ethylpentane-3-ol, the reactants needed are

- (A) $\text{CH}_3\text{CH}_2\text{MgBr} + \text{CH}_3\text{COCH}_2\text{CH}_3$
 (B) $\text{CH}_3\text{MgBr} + \text{CH}_3\text{CH}_2\text{CH}_2\text{COCH}_2\text{CH}_3$
 (C) $\text{CH}_3\text{CH}_2\text{MgBr} + \text{CH}_3\text{CH}_2\text{COCH}_2\text{CH}_3$
 (D) $\text{CH}_3\text{CH}_2\text{CH}_2\text{MgBr} + \text{CH}_3\text{COCH}_2\text{CH}_3$

Q9 Which of the following are the starting materials for the Grignard's synthesis of tert. butyl alcohol?

- (A) $\text{CH}_3\text{MgI} + \text{CH}_3\text{COCH}_3$
 (B) $\text{CH}_3\text{MgI} + \text{CH}_3\text{CHOHCH}_3$
 (C) $\text{CH}_3\text{CH}_2\text{MgBr} + \text{CH}_3\text{COCH}_3$
 (D) $\text{CH}_3\text{CH}_2\text{MgBr} + \text{CH}_3\text{CHO}$

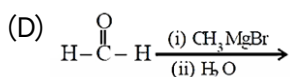
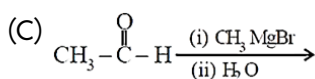
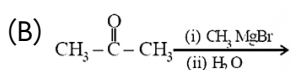
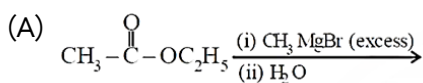
Q10 The final product is



Q11 Which compound is formed when CH_3OH reacts with CH_3-MgX

- (A) Acetone (B) Alcohol
 (C) Methane (D) Ethane

Q12 In which of the following reactions secondary alcohol is obtained as major product?



Answer Key

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

Q7 (C)
Q8 (C)
Q9 (A)
Q10 (D)
Q11 (C)
Q12 (C)



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