

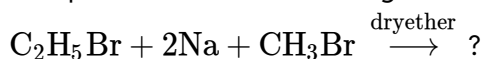
## Lakshya NEET (2025)

## Organic Chemistry

## Haloalkanes and Haloarenes

DPP: 11

Q1 The products of the following reactions is(are)

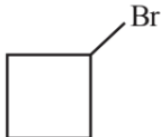
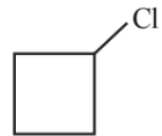




- (A) ethane (B) propane  
(C) butane (D) All of these

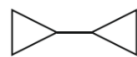
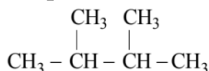
Q2 An alkyl bromide (X) reacts with sodium in ether to form 4, 5-diethyloctane, the compound X is

- (A)  $\text{CH}_3(\text{CH}_2)_3\text{Br}$   
(B)  $\text{CH}_3(\text{CH}_2)_5\text{Br}$   
(C)  $\text{CH}_3(\text{CH}_2)_3\text{CH}(\text{Br})\text{CH}_3$   
(D)  $\text{CH}_3 - (\text{CH}_2)_2 - \text{CH}(\text{Br}) - \text{CH}_2\text{CH}_3$

Q3 What will be the product form when 1-bromo-3-chlorocyclobutane reacts with two equivalents of metallic sodium in ether?

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

Q4 Which one is not prepared by Wurtz reaction?

- (A)  $\text{C}_4\text{H}_{10}$   
(B)   
(C)  $\text{CH}_4$   
(D) 

Q5 On treating a mixture of two alkyl halides with sodium metal in dry ether, 2-methyl propane



was obtained. The alkyl halides are

- (A) 2-chloropropane & chloromethane  
(B) 2-chloropropane & chloroethane  
(C) Chloromethane & chloroethane  
(D) Chloromethane & 1-chloropropane

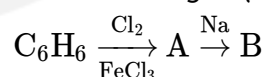
Q6 In Wurtz reaction, the reagent used is

- (A) Na  
(B) Na /liquid  $\text{NH}_3$   
(C) Na/ dry ether  
(D) Na/dry alcohol

Q7 Which of the following will form cyclohexane on reaction with two moles of Na in ether?

- (A)  $\text{CH}_3\text{CH}_2 - \text{Br}$   
(B)   
(C)  $\text{Br} - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{Cl}$   
(D) 

Q8 In the following sequence of reactions, B is



- (A) Chlorobenzene  
(B) Benzyl chloride  
(C) Diphenyl  
(D) Chlorophenylmethane

Q9 For the preparation of Grignard reagent from haloalkanes which metal is used

- (A) Na (B) Mg  
(C) Ca (D) Ag

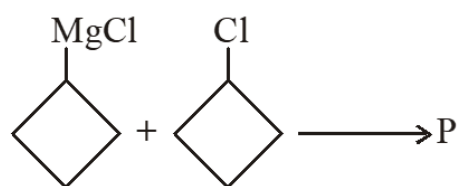
Q10 The reagent used for Friedel-Crafts reaction is

- (A) Dry ether  
(B)  $\text{AlCl}_3$



(C) Anhydrous  $\text{AlCl}_3$ (D)  $\text{P}_2\text{O}_5$ 

Q11



Q12 The reaction given below is known as



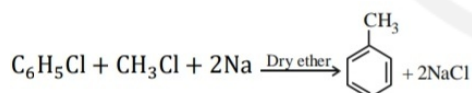
(A) Wurtz reaction

(B) Fittig reaction

(C) Wurtz-fittig reaction

(D) Ullmann reaction

Q13



This reaction is

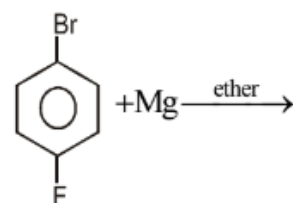
(A) Stephen

(B) Sandmeyer's

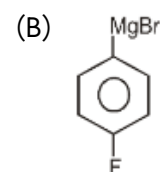
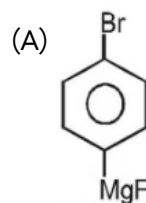
(C) Fittig

(D) Wurtz-Fittig

Q14



Product is



(C) Both

(D) None of these

Q15  $\text{C}_6\text{H}_5\text{COOH} + \text{CH}_3\text{MgI} \rightarrow$  possible products(A)  $\text{C}_6\text{H}_5\text{COOMgI}$ (B)  $\text{CH}_4$ 

(C) Both A and B

(D)  $\text{C}_6\text{H}_5 - \overset{\text{O}}{\parallel}{\text{C}} - \text{CH}_3$ 

## Answer Key

Q1 (D)  
Q2 (D)  
Q3 (D)  
Q4 (C)  
Q5 (A)  
Q6 (C)  
Q7 (C)  
Q8 (C)

Q9 (B)  
Q10 (C)  
Q11 (C)  
Q12 (C)  
Q13 (D)  
Q14 (B)  
Q15 (C)



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