

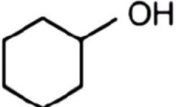
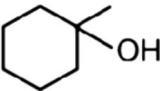
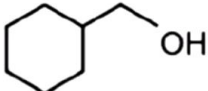
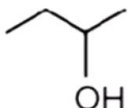
## Lakshya NEET (2025)

## Organic Chemistry

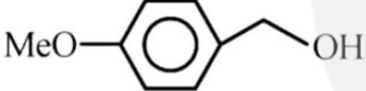
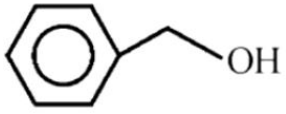
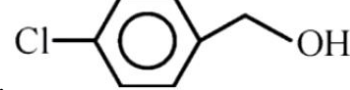

DPP: 3

## Haloalkanes and Haloarenes

Q1 Which alcohol will react fastest with HCl and anhy.  $ZnCl_2$  ?

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

Q2 Give the decreasing order of the reaction rates of the following compounds with HBr.

- I. 
- II. 
- III. 
- IV. 

- (A) I > II > III > IV  
 (B) IV > III > III > I  
 (C) II > I > III > IV  
 (D) IV > III > I > II

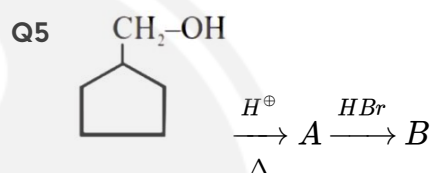
Q3 Which of the following major product will be obtained when neopentyl alcohol is treated with conc. HCl in presence of  $ZnCl_2$

- (A) t-butyl chloride  
 (B) isobutylene

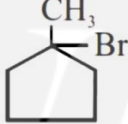
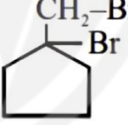

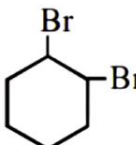
- (C) t-pentyl chloride  
 (D) Neo pentyl chloride

Q4 The reaction, Alcohol + HCl  $\rightleftharpoons$  Alkyl halide +  $H_2O$  is reversible. For the completion of the reaction..... is used

- (A) Anhydrous zinc chloride  
 (B) Concentrated  $H_2SO_4$   
 (C) Excess of water  
 (D) Calcium chloride



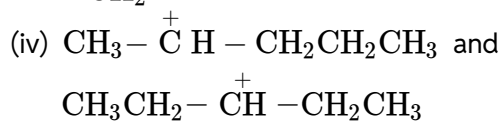
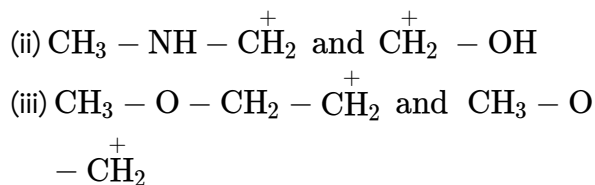
What is the structure of B :

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

Q6 In which of the following pairs of carbocations, the first carbocation is more stable than the second?

- (i)  $CH_2 = CH - \overset{+}{C}H_2$  and  $CH_2 = CH - \overset{+}{C}H_2 - CH_2$





(A) (i), (ii) and (iii)

(B) (i), (ii) and (iv)

(C) (ii) and (iii)

(D) (iii) and (iv)

**Q7** Hybridization of  $\beta$ -carbon atom in allyl halide is

(A)  $sp$

(B)  $sp^2$

(C)  $sp^3$

(D)  $sp^3 d$

**Q8** Which of the following is a secondary halide?

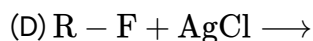
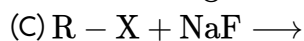
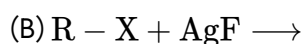
(A) Isopropyl iodide

(B) Isobutyl Chloride

(C) Isopentyl bromide

(D) All of these

**Q9** Which is Finkelstein reaction?



**Q10** The synthesis of alkyl fluorides is best accomplished by

(A) Sandmayers reaction

(B) Finkelstein reaction

(C) Swarts reaction

(D) Free radical reaction



## Answer Key

Q1 (B)  
Q2 (A)  
Q3 (C)  
Q4 (A)  
Q5 (C)

Q6 (B)  
Q7 (B)  
Q8 (A)  
Q9 (A)  
Q10 (C)



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