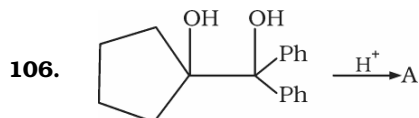
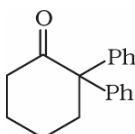
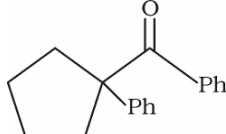
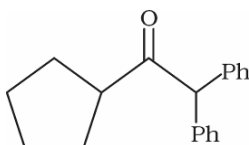
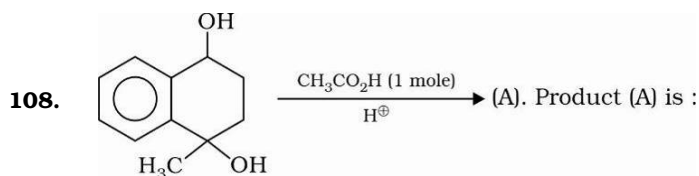
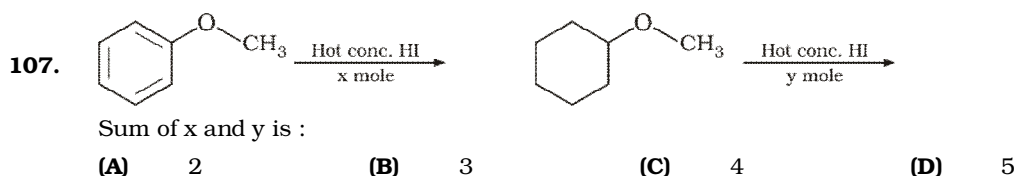


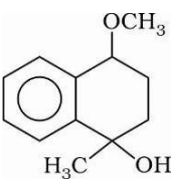
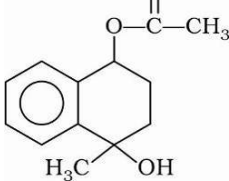
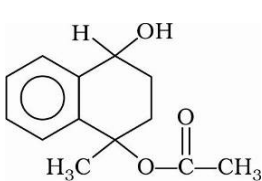
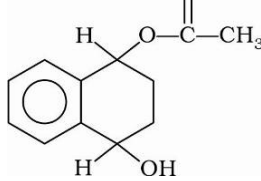
Date Planned : __ / __ / __	Daily Tutorial Sheet-9	Expected Duration : 30 Min
Actual Date of Attempt : __ / __ / __	Level-2	Exact Duration : _____

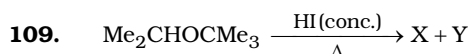


The product (A) will be :

- (A)  (B) 
- (C)  (D) None of these



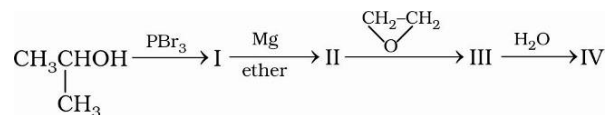
- (A)  (B) 
- (C)  (D) 



Predict the nature of product and the type of reaction involved in their formation :

- (A)  $\text{Me}_2\text{CH-I}$  and  $\text{Me}_3\text{COH}$ , formed by  $\text{S}_{\text{N}}1$  reaction
- (B)  $\text{Me}_2\text{CHOH}$  and  $\text{Me}_3\text{C-I}$ , formed by  $\text{S}_{\text{N}}1$  reaction
- (C)  $\text{Me}_2\text{CH-I}$  and  $\text{Me}_3\text{COH}$ , formed by  $\text{S}_{\text{N}}2$  reaction
- (D)  $\text{Me}_2\text{CHOH}$  and  $\text{Me}_3\text{C-I}$ , formed by  $\text{S}_{\text{N}}2$  reaction

**110.** The final product (IV) in the sequence of reactions is :

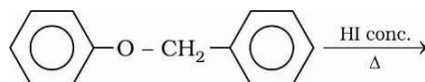


- (A)  $\text{CH}_3 - \underset{\text{CH}_3}{\text{CHOCH}_2\text{CH}_2\text{OH}}$  (B)  $\text{CH}_3 - \underset{\text{CH}_3}{\text{CH}} \underset{\text{OH}}{\text{CH}} \text{CH}_3$
- (C)  $\text{CH}_3 - \underset{\text{CH}_3}{\text{CH}} - \text{CH}_2\text{CH}_2\text{OH}$  (D)  $\text{CH}_3 - \underset{\text{CH}_3}{\text{CHOCH}_2\text{CH}_3}$

**111.**  $\text{C}_2\text{H}_5\text{MgBr} + \text{H}_2\text{C} - \underset{\text{O}}{\text{CHCH}_3} \xrightarrow[2. \text{H}_2\text{O}]{1. \text{Et}_2\text{O}}$  Product. The product is :

- (A)  $\text{CH}_2 - \underset{\text{OH}}{\text{CH}} - \underset{\text{CH}_3}{\text{CH}} - \text{C}_2\text{H}_5$  (B)  $\text{C}_2\text{H}_5 - \underset{\text{OH}}{\text{CH}} - \text{CH}_2\text{CH}_3$
- (C)  $\text{C}_2\text{H}_5 - \text{CH}_2 - \underset{\text{OH}}{\text{CH}} - \text{CH}_3$  (D)  $\text{C}_2\text{H}_5 - \text{CH} = \text{CH} - \text{CH}_3$

**\*112.** Which of the following is(are) true for the above reaction ?



- (A) The products are  $\text{PhOH} + \text{PhCH}_2\text{OH}$  (B) The products are  $\text{PhOH} + \text{PhCH}_2\text{I}$
- (C) The reaction path is via  $\text{S}_\text{N}2$  (D) The reaction path is via  $\text{S}_\text{N}1$

**\*113.** Cyclopentylether can be obtained by :

- (A)  $\text{CyclopentylONa} + \text{CH}_3\text{CH}_2\text{Br}$  (B)  $\text{CyclopentylBr} + \text{CH}_3\text{CH}_2\text{ONa}$
- (C)  $\text{CyclopentylOH} + \text{CH}_2\text{N}_2/\text{HBF}_4$  (D)  $\text{CyclopentylOH} + \text{CH}_3\text{OH} \xrightarrow[140^\circ\text{C}]{\text{H}_2\text{SO}_4(\text{conc.})}$

**\*114.** Diethylether reacts with  $\text{PCl}_5$  to form :

- (A) Ethylchloride (B) Phosphorousoxytrichloride
- (C) 1, 2-Dichloroethane (D) Ethene

**115.** Consider the following reaction :  $\text{RONa}^+ + \text{R}'\text{X} \longrightarrow \text{R}-\text{O}-\text{R}' + \text{NaX}$

Which of the following statement is/are correct ?

- (A) The reaction is called Williamson's synthesis.
- (B) It is a nucleophilic substitution reaction
- (C) The reaction is applicable to all types of alkyl halides
- (D) If  $\text{R}'\text{X}$  is a primary alkyl halide, the reaction proceeds through  $\text{S}_\text{N}2$  mechanism