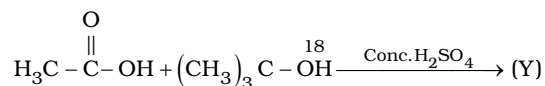
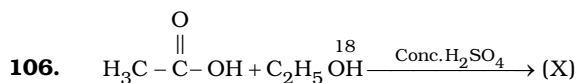
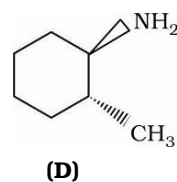
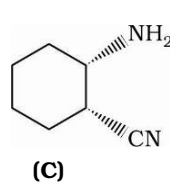
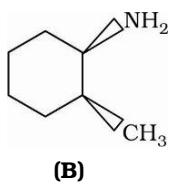
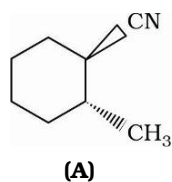
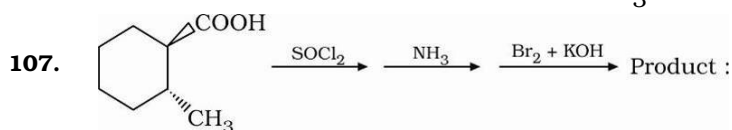
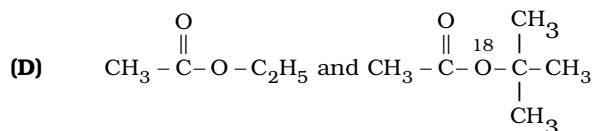
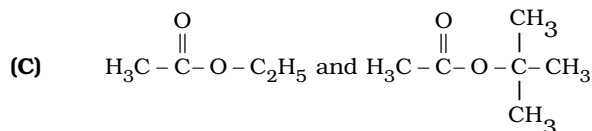
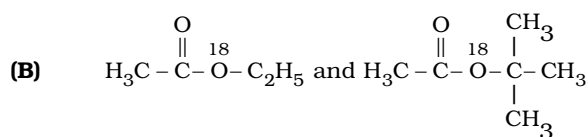
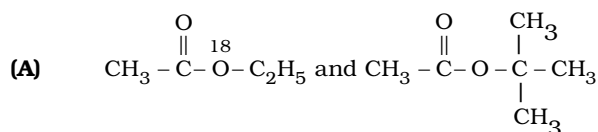


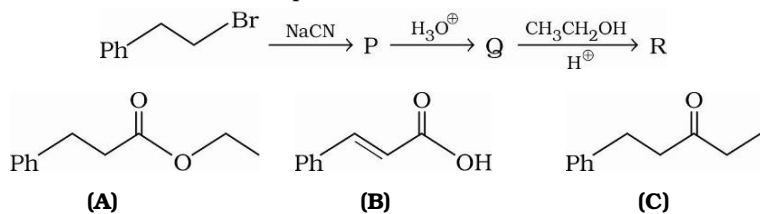
Date Planned : __ / __ / __	Daily Tutorial Sheet-9	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-2	Exact Duration : _____

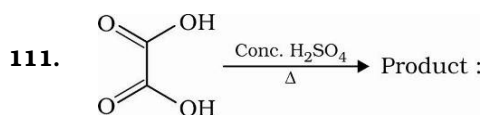
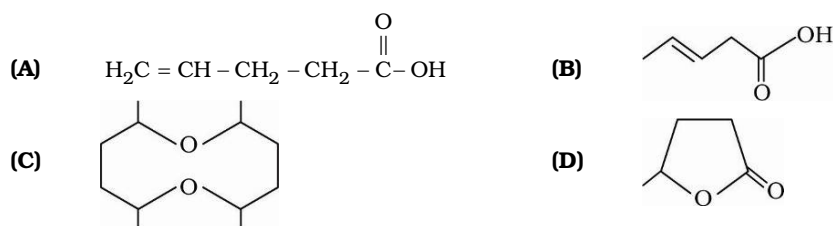
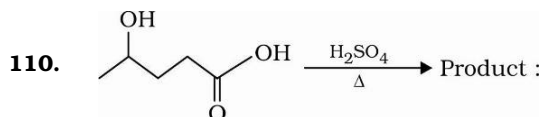
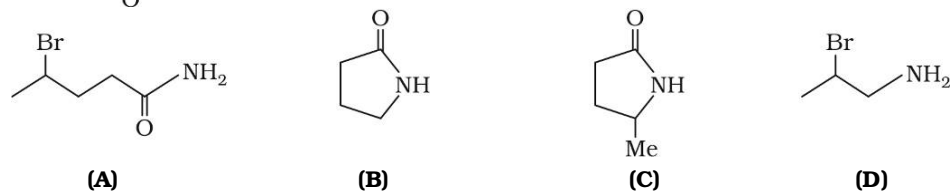
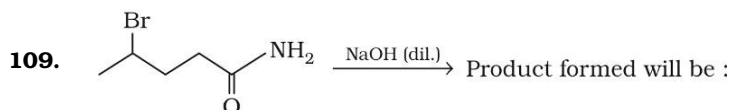


In the above reaction (X) and (Y) are respectively :

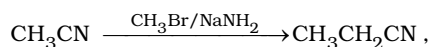


108. Find the structure of compound R :





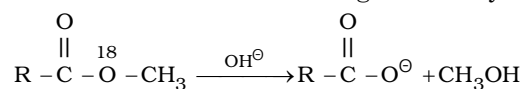
112. In the given reaction :



intermediate is \_\_\_\_\_ and path is \_\_\_\_\_ :



\*113. Select correct statement for the following base-catalysed hydrolysis :



- (A) It is a nucleophilic acyl substitution (addition-elimination reaction)  
(B)  $^{18}\text{O}$  appears in methanol  $\text{CH}_3\text{OH}$   
(C) The reaction is not reversible  
(D)  $^{18}\text{O}$  appears in carboxylate ion



\*114. In Claisen condensation reaction :

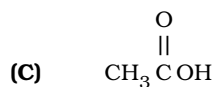
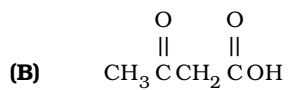
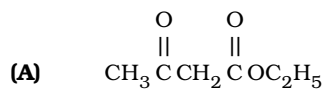
- (A) A proton is removed from the  $\alpha$ -carbon to form a resonance-stabilized carbanion
- (B) The carbanion acts as a nucleophile in a nucleophilic acyl substitution reaction with another ester molecule
- (C) A new C – C bond is formed
- (D) The product formed has an active methylene group

115. Ester  $\xrightarrow{\text{LiAlH}_4}$   $\text{CH}_3\text{CH}_2\text{OH}$  (only)



Ester  $\xrightarrow[\text{(ii) H}_3\text{O}^+]{\text{(i) NaOC}_2\text{H}_5}$  A

A is :



(D) None of the above