

JEE Mains 2019 Chapter wise Question Bank

Carboxylic Acid and Its Derivatives - Questions

Q1

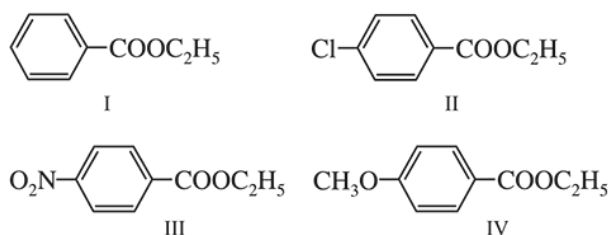
Which dicarboxylic acid in presence of a dehydrating agent is least reactive to give an anhydride?

- (1)
- (2)
- (3)
- (4)

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Q2

The decreasing order of ease of alkaline hydrolysis for the following esters is

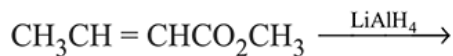


- (1) III > II > IV > I
 (2) III > II > I > IV
 (3) IV > II > III > I
 (4) II > III > I > IV

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Q3

The major product of the following reaction is:

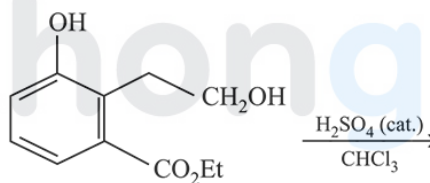


- (1) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CO}_2\text{CH}_3$
 (2) $\text{CH}_3\text{CH}=\text{CHCH}_2\text{OH}$
 (3) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$
 (4) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$

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Q4

The major product of the following reaction is:



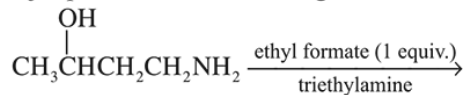
- (1)
- (2)
- (3)
- (4)

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Q5

Carboxylic Acid and Its Derivatives

The major product of the following reaction is:

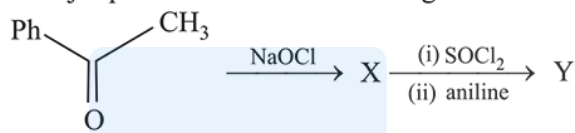


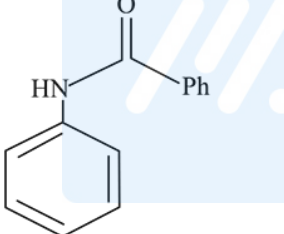
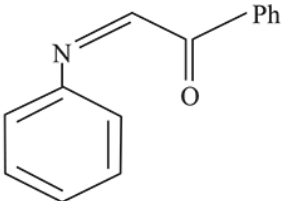
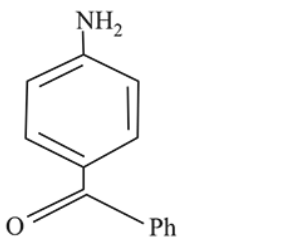
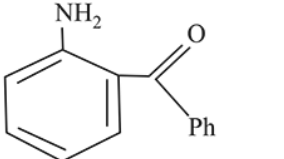
- (1) $\text{CH}_3-\overset{\text{OH}}{\text{CH}}-\text{CH}=\text{CH}_2$
- (2) $\text{CH}_3\overset{\text{OH}}{\text{CH}}\text{CH}_2\text{CH}_2\text{NHCHO}$
- (3) $\text{CH}_3\overset{\text{O}}{\underset{\text{O}}{\text{C}}}\text{CHCH}_2\text{CH}_2\text{NH}_2$
- (4) $\text{CH}_3\text{CH}=\text{CH}-\text{CH}_2\text{NH}_2$

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Q6

The major product 'Y' in the following reaction is:



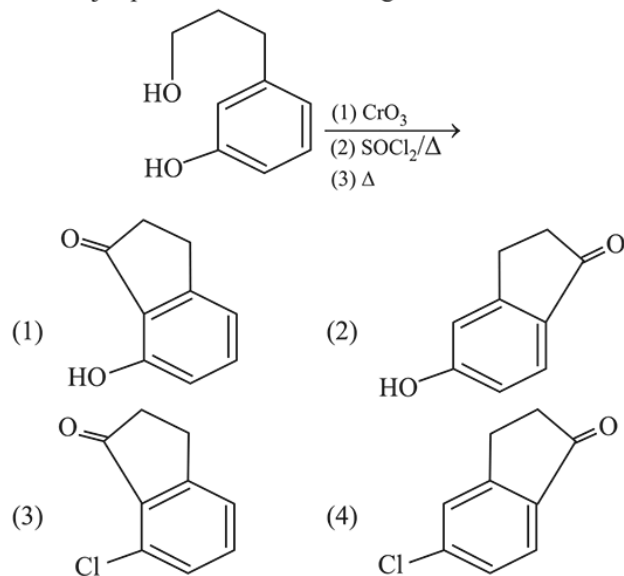
- (1) 
- (2) 
- (3) 
- (4) 

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Q7

The major product of the following reaction is:

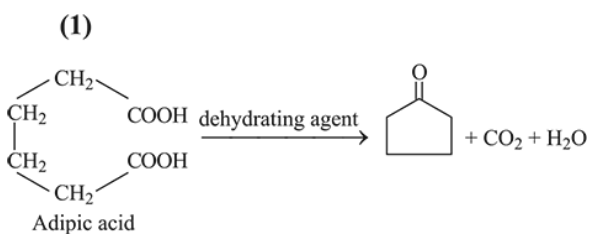


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Carboxylic Acid and Its Derivatives - Answers

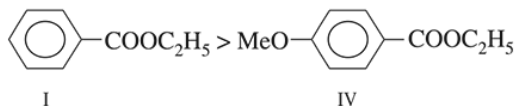
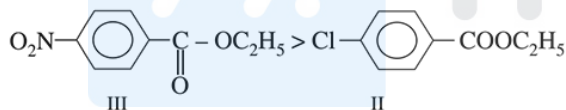
Q1



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Q2

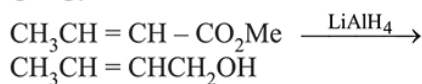
(2) Rate of reaction \propto Electrophilicity of carbonyl carbon, so, E.W.G. increases rate while E.R.G. decreases the rate.



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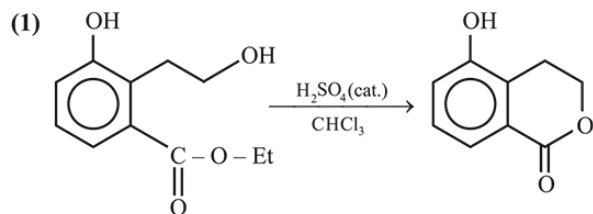
Q3

(2) LiAlH_4 reduces esters to alcohols but does not reduce $\text{C}=\text{C}$.

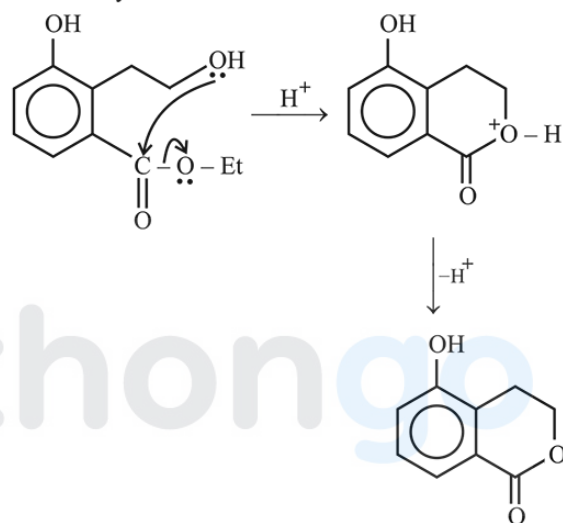


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Q4

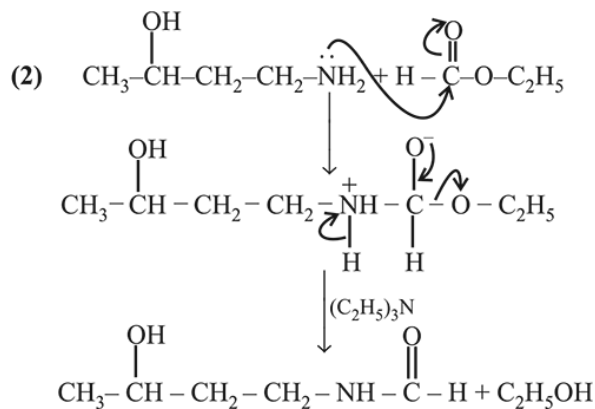


Acid catalysed intramolecular esterification reaction.



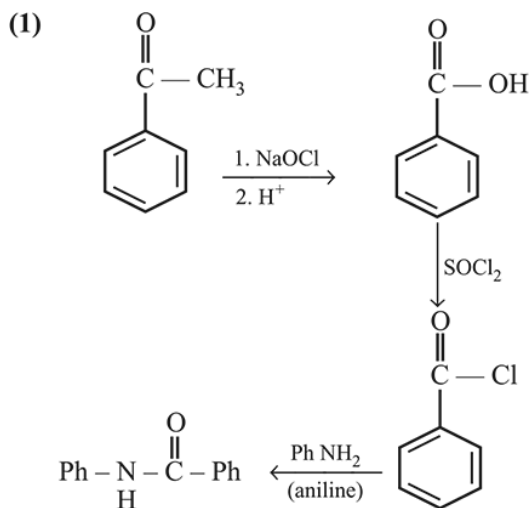
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Q5



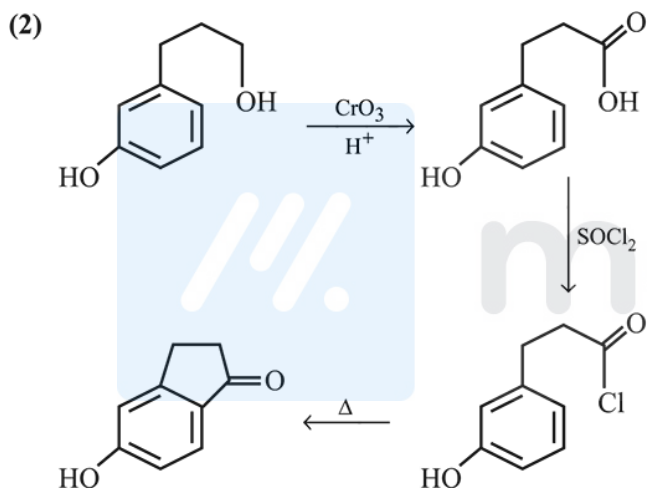
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Q6



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Q7



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