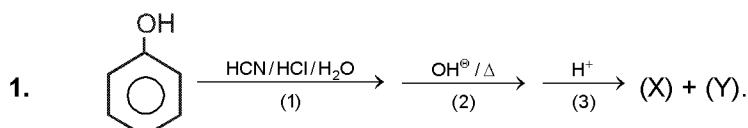


Topic : Carboxylic Acids

Type of Questions

		M.M., Min.
Single choice Objective ('-1' negative marking)	Q.1 to Q.4	(3 marks 3 min.) [12, 12]
Fill in the Blanks ('-1' negative marking)	Q.5	(3 marks 3 min.) [3, 3]
Comprehension ('-1' negative marking)	Q.6 to Q.8	(3 marks 3 min.) [9, 9]
Subjective Questions ('-1' negative marking)	Q.9	(4 marks 5 min.) [4, 5]

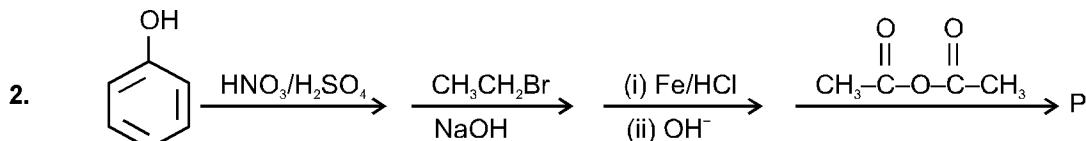


X gives white turbidity with Lucas reagent instantly.

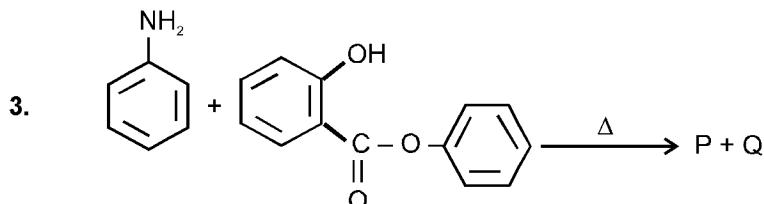
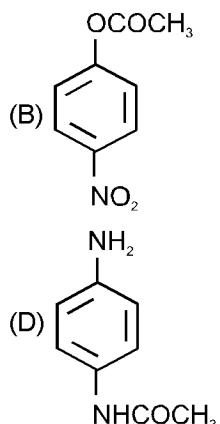
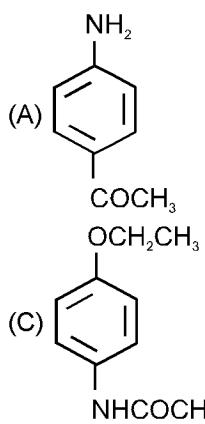
X, Y both turn blue litmus solution red.

'Y' can be :

- | | |
|----------------------------|------------------------------|
| (A) p-Hydroxy benzoic acid | (B) p-Hydroxybenzaldehyde |
| (C) m-Hydroxy benzoic acid | (D) p-Hydroxy benzyl alcohol |



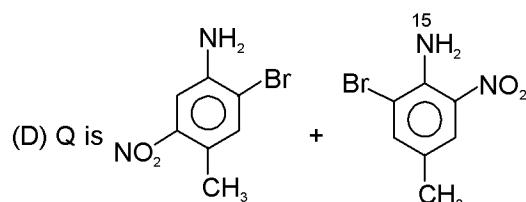
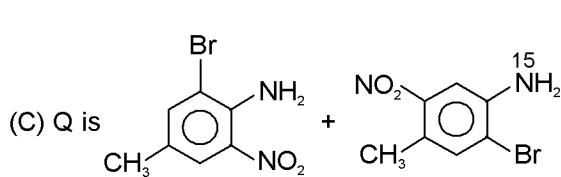
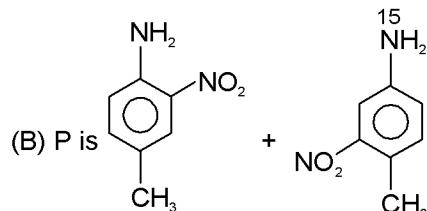
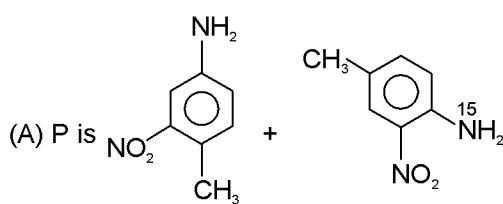
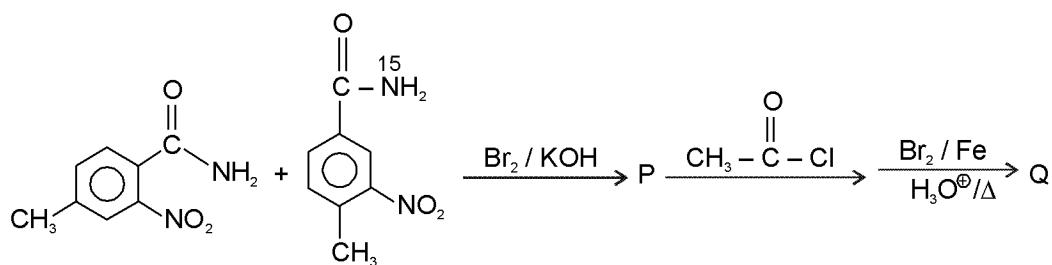
Product P is phenacetin (an analgesic). Its structure will be :



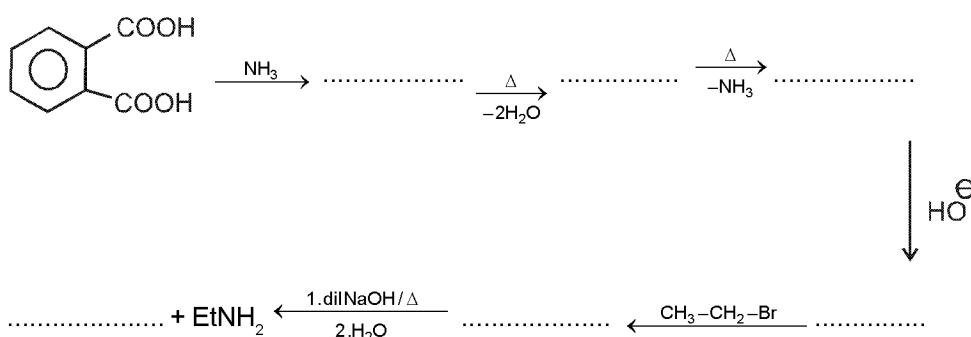
Correct statement(s) is/are -

- | | |
|-------------------|-------------------------|
| (A) P is an acid | (B) Q is Phenol |
| (C) P is an amide | (D) Q is a hydroxy acid |

4. The correct option for products P and Q in the following sequence of reaction is / are

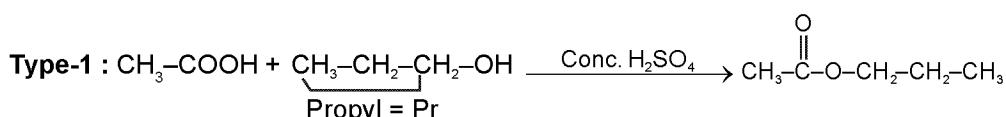


5. Fill in the blanks

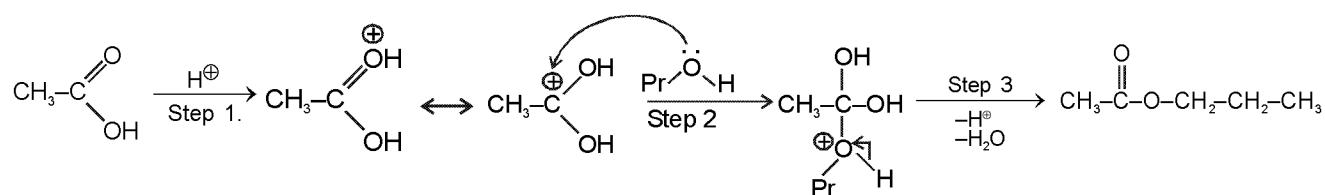


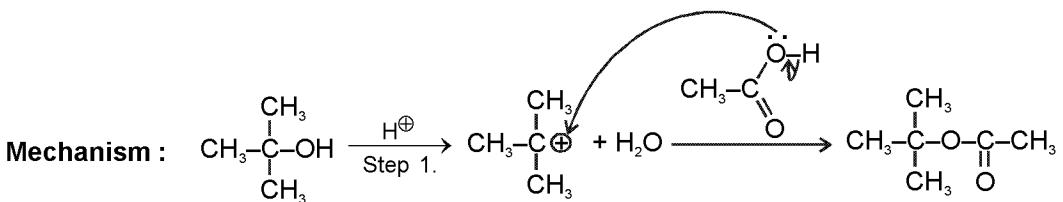
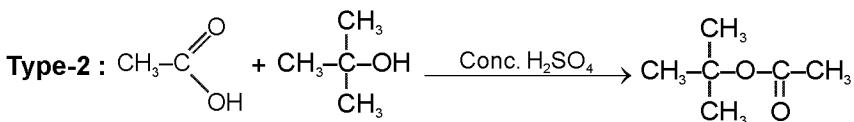
Comprehension # (Q.6 to 8)

Observe the esterification mechanisms for primary and tertiary alcohols.

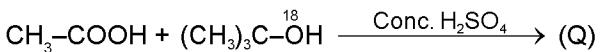


Mechanism :





6. $\text{CH}_3\text{COOH} + \text{C}_2\text{H}_5\text{OH} \xrightarrow{\text{Conc. H}_2\text{SO}_4} (\text{P})$



In the above reaction (P) and (Q) are respectively :

- (A) $\text{CH}_3-\overset{\text{O}}{\parallel} \text{C}-\text{O}-\text{C}_2\text{H}_5$, $\text{CH}_3-\overset{\text{O}}{\parallel} \text{C}^{18}-\text{O}-\underset{\text{CH}_3}{\underset{|}{\text{C}}}-\text{CH}_3$

(B) $\text{CH}_3-\overset{\text{O}}{\parallel} \text{C}^{18}-\text{O}-\text{C}_2\text{H}_5$, $\text{CH}_3-\overset{\text{O}}{\parallel} \text{C}-\text{O}-\underset{\text{CH}_3}{\underset{|}{\text{C}}}-\text{CH}_3$

(C) $\text{C}_2\text{H}_5-\overset{\text{O}}{\parallel} \text{C}^{18}-\text{O}-\text{CH}_3$, $\text{CH}_3-\overset{\text{O}}{\parallel} \text{C}-\text{O}-\underset{\text{CH}_3}{\underset{|}{\text{C}}}-\text{CH}_3$

(D) $\text{CH}_3-\overset{\text{O}}{\parallel} \text{C}^{18}-\text{O}-\text{C}_2\text{H}_5$, $\text{CH}_3-\overset{\text{O}}{\parallel} \text{C}-\text{O}-\underset{\text{CH}_3}{\underset{|}{\text{C}}}-\text{CH}_3$

Answer Key

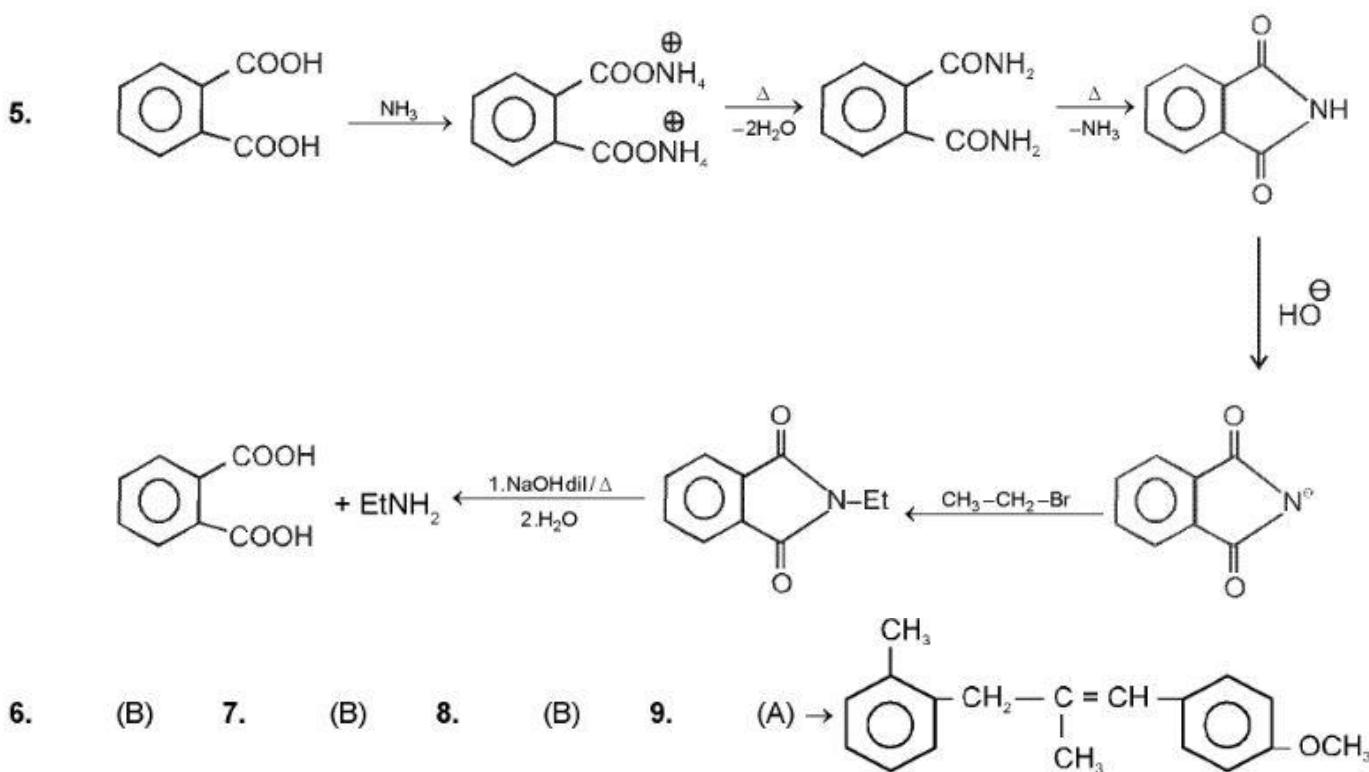
DPP No. # 29

1. (A)

2. (C)

3.* (BC)

4.* (BC)



Hints & Solutions

DPP No. # 29

