

PYQSide

JEE MAIN ALDEHYDES, KETONES AND CARBOXYLIC ACIDS — CANNIZZARO REACTION OF ALDEHYDES — PYQS

Max. Marks: 12

Questions: 3

Section A (MCQ)

- Q.1** An organic compound “x” where molar ratio of C, O and H are equal, on treatment with 50% KOH under reflux followed by acidification produced “y”. The most likely structure of “y” is:
[Molar mass of ‘x’ is 58 g mol^{-1}]

[JEE Main 2026 (Online) 2nd April Evening Shift]

- (1) $\text{CH}_2=\text{CH}-\overset{\text{O}}{\underset{\parallel}{\text{C}}}-\text{OH}$ (2) $\text{CH}_3-\text{CH}=\text{CH}-\text{CH}=\text{O}$
(3) $\text{O}=\text{C}-\text{OH}$
|
 CH_2-OH (4) $\text{CH}_3-\overset{\text{O}}{\underset{\parallel}{\text{C}}}-\text{OH}$

Scan or tap for the full solution



- Q.2** The compound A, $\text{C}_8\text{H}_8\text{O}_2$ reacts with acetophenone to form a single product via cross-Aldol condensation. The compound A on reaction with conc. NaOH forms a substituted benzyl alcohol as one of the two products. The compound A is :

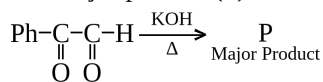
[JEE Main 2026 (Online) 22nd January Evening Shift]

- (1) 2-hydroxy acetophenone
(2) 4-hydroxy benzaldehyde
(3) 4-methyl benzoic acid
(4) 4-methoxy benzaldehyde

Scan or tap for the full solution



- Q.3** The major product (P) in the following reaction is :



[JEE Main 2025 (Online) 3rd April Evening Shift]

- (1) $\text{Ph}-\overset{\text{O}}{\underset{\parallel}{\text{C}}}-\text{COO}^\ominus \text{K}^\oplus$
|
 OH
(2) $\text{Ph}-\text{CH}-\text{CH}_2\text{OH}$
(3) $\text{Ph}-\overset{\text{O}}{\underset{\parallel}{\text{C}}}-\text{H}-\text{COO}^\ominus \text{K}^\oplus$
|
 OH
(4) $\text{Ph}-\overset{\text{O}}{\underset{\parallel}{\text{C}}}-\text{CH}_2\text{OH}$

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3										
Ans.	3	4	3										