

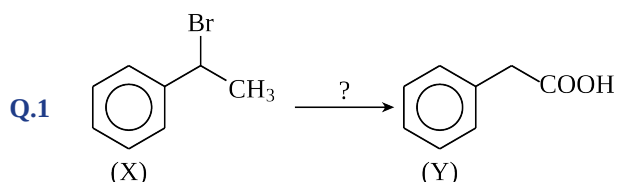
PYQSide

JEE MAIN ALDEHYDES, KETONES AND CARBOXYLIC ACIDS — PREPARATION OF CARBOXYLIC ACIDS — PYQS

Max. Marks: 24

Questions: 6

Section A (MCQ)

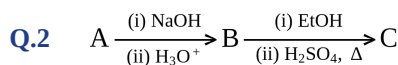


The correct sequence of reagents for the above conversion of X to Y is :

[JEE Main 2026 (Online) 23rd January Morning Shift]

- (1) (i) NaOH(aq), (ii) Jones reagent, (iii) H_3O^+
- (2) (i) NaOEt, (ii) $\text{B}_2\text{H}_6/\text{H}_2\text{O}_2$, (iii) Jones reagent
- (3) (i) Jones reagent, (ii) NaOEt, (iii) Hot KMnO_4/KOH
- (4) (i) $\text{B}_2\text{H}_6/\text{H}_2\text{O}_2$, (ii) NaOEt, (iii) Jones reagent

Scan or tap for the full solution 



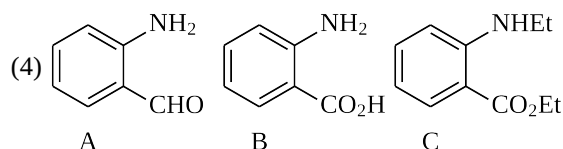
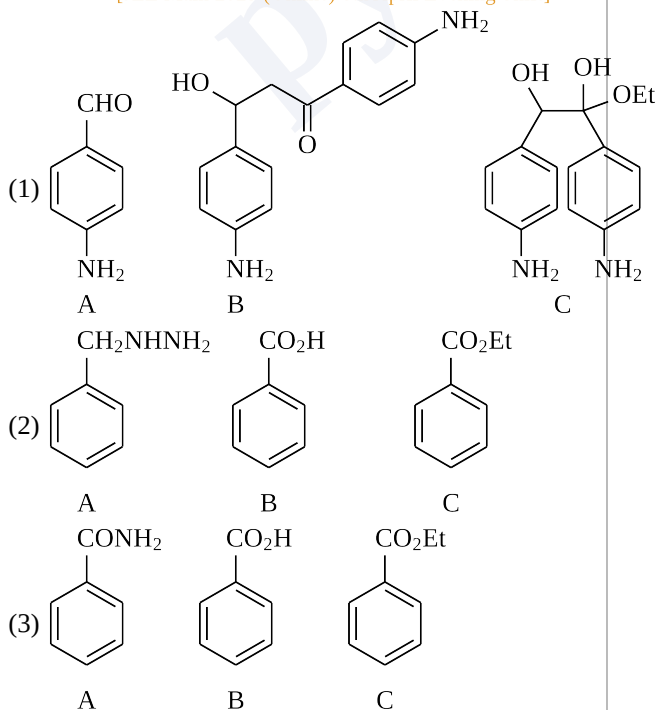
'A' shows positive Lassaigne's test for N and its molar mass is 121.

'B' gives effervescence with aq NaHCO_3 .

'C' gives fruity smell.

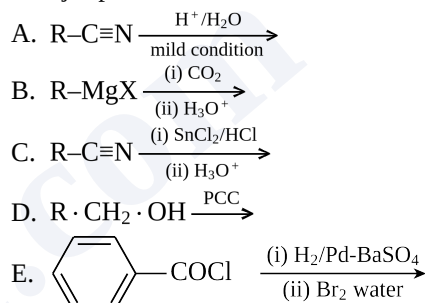
Identify A, B and C from the following.

[JEE Main 2025 (Online) 8th April Evening Shift]



Scan or tap for the full solution 

Q.3 Consider the following reactions. From these reactions which reaction will give carboxylic acid as a major product?

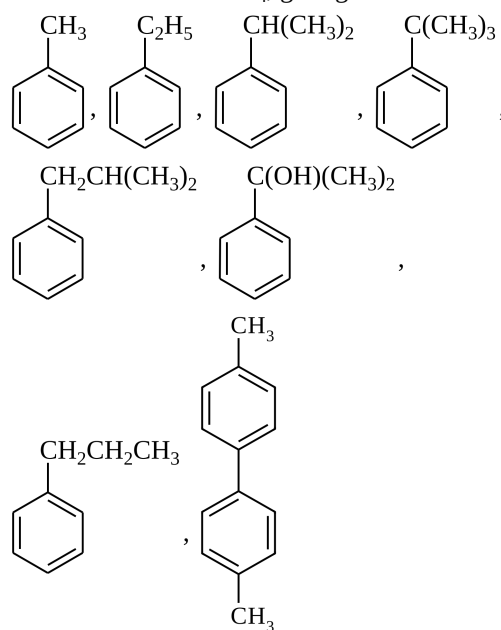


Choose the correct answer from the options given below: [JEE Main 2025 (Online) 2nd April Evening Shift]

- (1) A, B and E only
- (2) A and D only
- (3) B, C and E only
- (4) B and E only

Scan or tap for the full solution 

Q.4 The total number of compounds from below when treated with hot KMnO_4 , giving benzoic acid is:



[JEE Main 2025 (Online) 28th January Evening Shift]

(1) 4

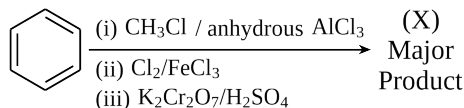
(2) 3

(3) 5

(4) 6

Scan or tap for the
full solution**Section B (Numerical)**

Q.5 Consider the following sequence of reactions to give the major product (X)



P g of the major product (X) formed is reacted with NaHCO_3 solution to liberate a gas which occupied 11.2 dm^3 at STP.

P = _____ g.

(Given molar mass in g mol^{-1} H : 1, C : 12, O : 16, Cl : 35.5)

[JEE Main 2026 (Online) 4th April Morning Shift]

Scan or tap for the
full solution

Q.6 Grignard reagent RMgBr (P) reacts with water and forms a gas (Q). One gram of Q occupies 1.4 dm^3 at STP. (P) on reaction with dry ice in dry ether followed by H_3O^+ forms a compound (Z). 0.1 mole of (Z) will weigh _____ g. (Nearest integer)

[JEE Main 2026 (Online) 24th January Evening Shift]

Scan or tap for the
full solution**ANSWER KEY****Section A (MCQ)**

Ques.	1	2	3	4							
Ans.	2	3	4	3							

Section B (Numerical)

Ques.	5	6									
Ans.	78	6									