PART 1 - CHEMISTRY

Topic : Amines

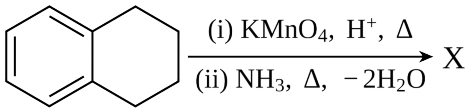
SECTION–1 : (Maximum Marks : 4)

- This section contains **ONE** question.
- Each question has **FOUR** options (A), (B), (C) and (D). **ONE OR MORE THAN ONE** of these four option(s) is(are) correct answer(s).
- For each question, choose the option(s) corresponding to (all) the correct answer(s).
- Answer to each question will be evaluated according to the following marking scheme :

Full Marks	: +4	ONLY if (all) the correct option(s) is(are) chosen;
Partial Marks	: +3	If all the four options are correct but ONLY three options are chosen;
Partial Marks	: +2	If three or more options are correct but ONLY two options are chosen, both of which are correct;
Partial Marks	: +1	If two or more options are correct but ONLY one option is chosen and it is a correct option;
Zero Marks	: 0	If none of the options is chosen (i.e. the question is unanswered);
Negative Marks	: −2	In all other cases.

- For example, in a question, if **(A), (B) and (D)** are the ONLY three options corresponding to correct answers, then choosing ONLY (A), (B) and (D) will get +4 marks; choosing ONLY (A) and (B) will get +2 marks; choosing ONLY (A) and (D) will get +2 marks; choosing ONLY (B) and (D) will get +2 marks; choosing ONLY (A) will get +1 mark; choosing ONLY (B) will get +1 mark; choosing ONLY (D) will get +1 mark; choosing no option (i.e. the question is unanswered) will get 0 marks; and choosing any other combination of options will get −2 marks.

1. For the reaction sequence given below, the correct statement(s) is(are) [JEE Advanced 2025 Paper 2]



$$X \xrightarrow[\text{(iii) R−Br}]{\text{(i) Strong heating; (ii) Ethanolic KOH}} Y \xrightarrow{NaOH} \text{Aromatic compound} + Z$$

(A) Both X and Y are oxygen containing compounds.

(B) Y on heating with $CHCl_3$/KOH forms isocyanide.

(C) Z reacts with Hinsberg's reagent.

(D) Z is an aromatic primary amine.

Scan or tap for the full solution

Space for Rough Work

JEE ADVANCED AMINES — GABRIEL PHTHALIMIDE SYNTHESIS — PYQS

Test Pattern : **JEE (Advanced)**

ANSWER KEY

SECTION–1																									
Ques.	1																								
Ans.	**A, C**																								