PART 1 - CHEMISTRY

Topic : Amines

SECTION–1 : (Maximum Marks : 4)

- This section contains **ONE** question.
- Each question has **TWO** lists: **List-I** and **List-II**.
- Four options are given representing matching of elements from List-I and List-II. **ONLY ONE** of these four options corresponds to a correct matching.
- For each question, choose the option corresponding to the correct answer.
- Answer to each question will be evaluated according to the following marking scheme :

Full Marks	: +4	If ONLY the correct option is chosen;
Zero Marks	: 0	If none of the options is chosen (i.e. the question is unanswered);
Negative Marks	: −1	In all other cases.

1. The major products obtained from the reactions in **List-II** are the reactants for the named reactions mentioned in **List-I**. Match each entry in **List-I** with the appropriate entry in **List-II** and choose the correct option. [JEE Advanced 2025 Paper 1]

List-I		List-II	
P.	Stephen reaction	1.	Toluene $\xrightarrow{\text{(i) } CrO_2Cl_2/CS_2;\ \text{(ii) } H_3O^+}$
Q.	Sandmeyer reaction	2.	Benzoic acid $\xrightarrow[\text{(ii) } NH_3;\ \text{(iii) } P_4O_{10},\ \Delta]{\text{(i) } PCl_5}$
R.	Hoffmann bromamide degradation reaction	3.	Nitrobenzene $\xrightarrow{\text{(i) Fe, HCl; (ii) HCl, } NaNO_2 \text{ (273–278 K), } H_2O}$
S.	Cannizzaro reaction	4.	Toluene $\xrightarrow{\text{(i) } Cl_2/h\nu,\ H_2O;\ \text{(ii) Tollen's reagent; (iii) } SO_2Cl_2;\ \text{(iv) } NH_3}$
		5.	Aniline $\xrightarrow{\text{(i) } (CH_3CO)_2O,\ \text{Pyridine; (ii) } HNO_3,\ H_2SO_4,\ \text{288 K; (iii) aq. NaOH}}$

(A) P → 2; Q → 4; R → 1; S → 3
(B) P → 2; Q → 3; R → 4; S → 1
(C) P → 5; Q → 3; R → 4; S → 2
(D) P → 5; Q → 4; R → 2; S → 1

Scan or tap for the full solution

Space for Rough Work

JEE ADVANCED AMINES — NAME REACTIONS; CONVERSIONS — PYQS

Test Pattern : **JEE (Advanced)**

ANSWER KEY

SECTION–1																													
Ques.	1																												
Ans.	**B**																												