

PART 1 - CHEMISTRY

Topic : Principles related to practical chemistry

SECTION-A : (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 correct match of the group reagents in **List-I** for precipitating the metal ion given in **List-II** from solutions, is [JEE Advanced 2025 Paper 1]

List-I		List-II	
P.	Passing H_2S in the presence of NH_4OH	1.	Cu^{2+}
Q.	$(\text{NH}_4)_2\text{CO}_3$ in the presence of NH_4OH	2.	Al^{3+}
R.	NH_4OH in the presence of NH_4Cl	3.	Mn^{2+}
S.	Passing H_2S in the presence of dilute HCl	4.	Ba^{2+}
		5.	Mg^{2+}

(A) $\text{P} \rightarrow 3; \text{Q} \rightarrow 4; \text{R} \rightarrow 2; \text{S} \rightarrow 1$

(B) $\text{P} \rightarrow 4; \text{Q} \rightarrow 2; \text{R} \rightarrow 3; \text{S} \rightarrow 1$

(C) $\text{P} \rightarrow 3; \text{Q} \rightarrow 4; \text{R} \rightarrow 1; \text{S} \rightarrow 5$

(D) $\text{P} \rightarrow 5; \text{Q} \rightarrow 3; \text{R} \rightarrow 2; \text{S} \rightarrow 4$

Scan or tap for the full solution



Space for Rough Work

**JEE ADVANCED PRINCIPLES RELATED TO
PRACTICAL CHEMISTRY — GROUP REAGENTS IN
CATION ANALYSIS — PYQS**

Test Pattern : **JEE (Advanced)**

ANSWER KEY

SECTION-A

[illegible]