

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

Test Pattern : **JEE (Advanced)**

SECTION-A

[illegible]