

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. Match the compounds in **List-I** with the appropriate observations in **List-II** and choose the correct option.

[JEE Advanced 2025 Paper 1]

List-I		List-II	
P.		1.	Reaction with phenyl diazonium salt gives yellow dye.
Q.		2.	Reaction with ninhydrin gives purple color and it also reacts with FeCl ₃ to give violet color.
R.		3.	Reaction with glucose will give corresponding hydrazone.
S.		4.	Lassaigne extract of the compound treated with dilute HCl followed by addition of aqueous FeCl ₃ gives blood red color.
		5.	After complete hydrolysis, it will give ninhydrin test and it DOES NOT give positive phthalein dye test.

Space for Rough Work

PYQSide

(A) $P \rightarrow 1; Q \rightarrow 5; R \rightarrow 4; S \rightarrow 2$

(B) $P \rightarrow 2; Q \rightarrow 5; R \rightarrow 1; S \rightarrow 3$

(C) $P \rightarrow 5; Q \rightarrow 2; R \rightarrow 1; S \rightarrow 4$

(D) $P \rightarrow 2; Q \rightarrow 1; R \rightarrow 5; S \rightarrow 3$

Scan or tap for the
full solution



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**JEE ADVANCED PRINCIPLES RELATED TO
PRACTICAL CHEMISTRY — TESTS FOR FUNCTIONAL
GROUPS (NINHYDRIN, FeCl_3 , AZO DYE) — PYQS**

Test Pattern : **JEE (Advanced)**

ANSWER KEY

SECTION-A

[illegible]