

## PART 1 - CHEMISTRY

Topic : Principles related to practical chemistry

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

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| 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 <sub>3</sub> 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 <sub>3</sub> 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

(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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**Space for Rough Work**

**JEE ADVANCED PRINCIPLES RELATED TO PRACTICAL  
CHEMISTRY — TESTS FOR FUNCTIONAL GROUPS  
(NINHYDRIN,  $\text{FeCl}_3$ , AZO DYE) — PYQS**

Test Pattern : **JEE (Advanced)**

## SECTION-1

[illegible]