

PART 1 - CHEMISTRY

Topic : Alcohols, phenols and ethers

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 :

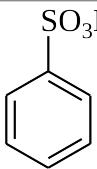
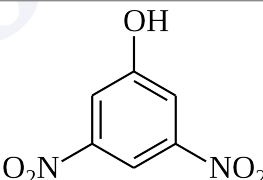
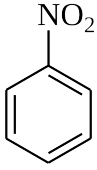
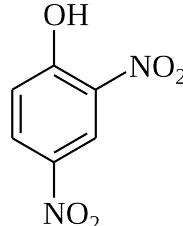
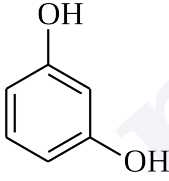
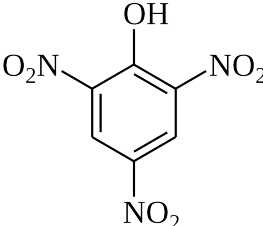
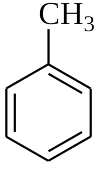
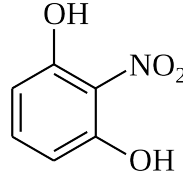
Full Marks : +4 If **ONLY** the correct option is chosen;

Zero Marks : 0 If none of the options is chosen (i.e. the question is unanswered);

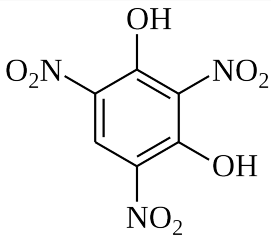
Negative Marks : -1 In all other cases.

1. **List-I** contains various reaction sequences and **List-II** contains different phenolic compounds. Match each entry in **List-I** with the appropriate entry in **List-II** and choose the correct option.

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List-I		List-II	
P.	 $\xrightarrow[\text{ii) Conc. HNO}_3]{\text{i) molten NaOH, H}_3\text{O}^+}$	1.	
Q.	 $\xrightarrow[\text{v) Conc. HNO}_3 / \text{Conc. H}_2\text{SO}_4]{\begin{array}{l} \text{i) Conc. HNO}_3 / \text{Conc. H}_2\text{SO}_4 \\ \text{ii) Sn / HCl} \\ \text{iii) NaNO}_2 / \text{HCl, } 0 - 5^\circ\text{C} \\ \text{iv) H}_2\text{O} \end{array}}$	2.	
R.	 $\xrightarrow[\text{iii) H}_3\text{O}^+, \Delta]{\begin{array}{l} \text{i) Conc. H}_2\text{SO}_4 \\ \text{ii) Conc. HNO}_3 \end{array}}$	3.	
S.	 $\xrightarrow[\text{vi) H}_2\text{O}]{\begin{array}{l} \text{i) a) KMnO}_4 / \text{KOH, } \Delta; \text{ b) H}_3\text{O}^+ \\ \text{ii) Conc. HNO}_3 / \text{Conc. H}_2\text{SO}_4, \Delta \\ \text{iii) a) SOCl}_2, \text{ b) NH}_3 \\ \text{iv) Br}_2, \text{ NaOH} \\ \text{v) NaNO}_2 / \text{HCl, } 0 - 5^\circ\text{C} \end{array}}$	4.	

Space for Rough Work

List-I		List-II	
		5.	

(A) P-2, Q-3, R-4, S-5 (B) P-2, Q-3, R-5, S-1 (C) P-3, Q-5, R-4, S-1 (D) P-3, Q-2, R-5, S-4

Scan or tap for the full solution 

Space for Rough Work

Test Pattern : JEE (Advanced)

SECTION-A

[illegible]