PART 1 - CHEMISTRY

Topic : d- and f-Block elements

SECTION–1 : (Maximum Marks : 6)

- This section contains **ONE** paragraph.
- Based on each paragraph, there are **TWO** questions.
- The answer to each question is a **NON-NEGATIVE INTEGER**.
- For each question, enter the correct integer corresponding to the answer in the place designated to enter the answer.
- Answer to each question will be evaluated according to the following marking scheme :

Full Marks : +3 If ONLY the correct answer is entered;
Zero Marks : 0 In all other cases.

Paragraph for Questions 1 and 2

When potassium iodide is added to an aqueous solution of potassium ferricyanide, a reversible reaction is observed in which a complex P is formed. In a strong acidic medium, the equilibrium shifts completely towards P. Addition of zinc chloride to P in a slightly acidic medium results in a sparingly soluble complex Q.

1. The number of moles of potassium iodide required to produce two moles of P is _____.

[JEE Advanced 2024 Paper 2]

Scan or tap for the full solution

2. The number of zinc ions present in the molecular formula of Q is _____. [JEE Advanced 2024 Paper 2]

Scan or tap for the full solution

Space for Rough Work

JEE ADVANCED D- AND F-BLOCK ELEMENTS — FERRICYANIDE–IODIDE REACTION — PYQS

Test Pattern : **JEE (Advanced)**

ANSWER KEY

SECTION–1																														
Ques.	1	2																												
Ans.	**2**	**3**																												