

PART 1 - CHEMISTRY

Topic : d- and f-Block elements

SECTION-B : (Maximum Marks : 8)

- 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 : +4 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 _____.

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Scan or tap for the
full solution

Space for Rough Work

**JEE ADVANCED D- AND F-BLOCK ELEMENTS — ZINC
FERROCYANIDE PRECIPITATE — PYQS**

Test Pattern : **JEE (Advanced)**

ANSWER KEY

SECTION-B

[illegible]