

JEE MAIN D- AND F-BLOCK ELEMENTS — OXIDATION STATES OF D-BLOCK ELEMENTS AND THEIR STABILITY — PYQS

Max. Marks: 8

Questions: 2

Section A (MCQ) — 2 questions

Q.1 Consider $|x|$ is the difference in oxidation states of Mn in highest manganese fluoride and highest manganese oxide. The ions with $|x|$ number of unpaired electrons from the following are :

- A. Sc^{3+} B. Zn^{2+}
 C. V^{2+} D. Fe^{2+}
 E. Co^{2+}

Choose the correct answer from the options given below : [JEE Main 2026 (Online) 4th April Evening Shift]

- (1) A and B Only (2) C, D and E Only
 (3) C and E Only (4) B and E Only

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full solution



Q.2 Given below are two statements:

Statement-I: CrO_3 is a stronger oxidizing agent than MoO_3

Statement-II: Cr(VI) is more stable than Mo(VI)

In the light of the above statements, choose the correct answer from the options given below

[JEE Main 2025 (Online) 3rd April Evening Shift]

- (1) Statement-I is true but Statement-II is false
 (2) Both Statement-I and Statement-II are true
 (3) Both Statement-I and Statement-II are false
 (4) Statement-I is false but Statement-II is true

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ANSWER KEY

Ques.	1	2									
Ans.	3	1									