

JEE MAIN COORDINATION COMPOUNDS — APPLICATIONS AND IMPORTANCE OF COORDINATION COMPOUNDS — PYQS

Max. Marks: 8
Questions: 2

Section A (MCQ) — 2 questions

Q.1 The statements that are incorrect about the nickel(II) complex of dimethylglyoxime are :

- A. It is red in colour.
- B. It has a high solubility in water at pH = 9.
- C. The Ni ion has two unpaired d-electrons.
- D. The N–Ni–N bond angle is almost close to 90°.
- E. The complex contains four five-membered metallacycles (metal containing rings).

Choose the correct answer from the options given below :

[JEE Main 2026 (Online) 23rd January Morning Shift]

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

Scan or tap for the
full solution



Q.2 A first row transition metal (M) does not liberate H₂ gas from dilute HCl. 1 mol of aqueous solution of MSO₄ is treated with excess of aqueous KCN and then H₂S(g) is passed through the solution. The amount of MS (metal sulphide) formed from the above reaction is _____ mol.

[JEE Main 2026 (Online) 22nd January Morning Shift]

- (1) 1 (2) 2 (3) 0 (4) 3

Scan or tap for the
full solution



ANSWER KEY

Ques.	1	2									
Ans.	3	3									