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JEE MAIN COORDINATION COMPOUNDS — METAL CARBONYLS AND SYNERGIC BONDING — PYQS

Max. Marks: 4 **Questions:** 1

Section A (MCQ) — 1 question

Q.1 The correct statements about metal carbonyls are

A. The metal-carbon bonds in metal carbonyls possess both σ and π character.

B. Due to synergic bonding interactions between metal and CO ligand, the metal-carbon bond becomes weak.

C. The metal-carbon σ bond is formed by the donation of lone pair of electrons on the carbonyl carbon into a vacant orbital of metal.

D. The metal-carbon π bond is formed by the donation of electrons from filled d-orbital of metal into vacant π* orbital of CO.

Choose the correct answer from the options given below : [JEE Main 2026 (Online) 5th April Morning Shift]

(1) A and B Only (2) A, C and D Only

(3) B and C Only (4) A and D Only

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ANSWER KEY

Ques.	1										
Ans.	2										