

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

Scan or tap for the
full solution



ANSWER KEY

Ques.	1												
Ans.	2												