

JEE MAIN ORGANIC CHEMISTRY – SOME BASIC PRINCIPLES AND TECHNIQUES — TETRAVALENCE OF CARBON AND HYBRIDISATION — PYQS

Max. Marks: 12

Questions: 3

Section A (MCQ) — 3 questions

Q.1 In 3,3-dimethylhex-1-en-4-yne, there are _____ sp^3 , _____ sp^2 and _____ sp hybridised carbon atoms respectively.

[JEE Main 2025 (Online) 2nd April Evening Shift]

- (1) 4, 2, 2 (2) 2, 4, 2 (3) 3, 3, 2 (4) 2, 2, 4

 Scan or tap for the
full solution


Q.2 Total number of sigma (σ) _____ and pi (π) _____ bonds respectively present in hex-1-en-4-yne are:

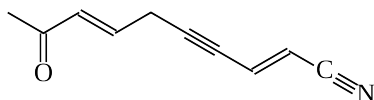
[JEE Main 2025 (Online) 29th January Evening Shift]

- (1) 14 and 3 (2) 11 and 3
(3) 13 and 3 (4) 3 and 13

 Scan or tap for the
full solution


Q.3 In the given structure, number of sp and sp^2 hybridized carbon atoms present respectively are :

[JEE Main 2025 (Online) 24th January Evening Shift]



- (1) 3 and 5 (2) 3 and 6 (3) 4 and 5 (4) 4 and 6

 Scan or tap for the
full solution


ANSWER KEY

Ques.	1	2	3									
Ans.	1	3	1									