

JEE MAIN ORGANIC CHEMISTRY – SOME BASIC PRINCIPLES AND TECHNIQUES — SUBSTRATE AND REAGENT, NUCLEOPHILES AND ELECTROPHILES — PYQS

Max. Marks: 8

Questions: 2

Section A (MCQ) — 2 questions

Q.1 Match the **LIST-I** with **LIST-II**

LIST-I		LIST-II	
A.	Carbocation	I.	Species that can supply a pair of electrons.
B.	C-Free radical	II.	Species that can receive a pair of electrons.
C.	Nucleophile	III.	sp^2 hybridized carbon with empty p-orbital.
D.	Electrophile	IV.	sp^2/sp^3 hybridized carbon with one unpaired electron.

Choose the **correct** answer from the options given below: [JEE Main 2025 (Online) 8th April Evening Shift]

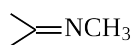
- (1) A-IV, B-II, C-III, D-I (2) A-II, B-III, C-I, D-IV
 (3) A-III, B-IV, C-I, D-II (4) A-III, B-IV, C-II, D-I

Scan or tap for the full solution

**Q.2** Total number of nucleophiles from the following is :

NH_3 , $PhSH$, $(H_3C)_2S$, $H_2C=CH_2$, $\overset{\ominus}{OH}$, H_3O^+ , $(CH_3)_2CO$,

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



- (1) 4 (2) 6 (3) 5 (4) 7

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2								
Ans.	3	3								