

JEE MAIN ORGANIC CHEMISTRY – SOME BASIC PRINCIPLES AND TECHNIQUES — CARBANIONS — PYQS

Max. Marks: 12
Questions: 3

Section A (MCQ) — 3 questions

Q.1 Given below are two statements :

Statement-I: On the basis of inductive effect, the order of stability of alkyl carbanions is $\text{CH}_3^- > \text{CH}_3\text{—CH}_2^- > (\text{CH}_3)_2\text{CH}^- > (\text{CH}_3)_3\text{C}^-$.

Statement-II: Allyl and benzyl carbanions are more stabilised by inductive effect and not by resonance effect.

In the light of the above statements, choose the correct answer from the options given below :

[JEE Main 2026 (Online) 5th April Morning Shift]

- (1) Both Statement-I and Statement-II are correct
- (2) Both Statement-I and Statement-II are incorrect
- (3) Statement-I is correct but Statement-II is incorrect
- (4) Statement-I is incorrect but Statement-II is correct

Scan or tap for the full solution



Q.2 CORRECT order of stability for the following is $\text{CH}_2=\text{CH}^-$, $\text{CH}_3\text{—CH}_2^-$, $\text{CH}\equiv\text{C}^-$

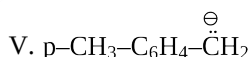
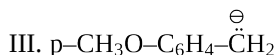
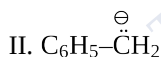
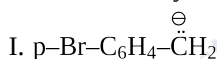
[JEE Main 2026 (Online) 28th January Morning Shift]

- (1) $\text{CH}\equiv\text{C}^- > \text{CH}_3\text{—CH}_2^- > \text{CH}_2=\text{CH}^-$
- (2) $\text{CH}_2=\text{CH}^- > \text{CH}\equiv\text{C}^- > \text{CH}_3\text{—CH}_2^-$
- (3) $\text{CH}\equiv\text{C}^- > \text{CH}_2=\text{CH}^- > \text{CH}_3\text{—CH}_2^-$
- (4) $\text{CH}_3\text{—CH}_2^- > \text{CH}_2=\text{CH}^- > \text{CH}\equiv\text{C}^-$

Scan or tap for the full solution



Q.3 Arrange the following carbanions in the decreasing order of stability.



Choose the correct answer from the options given below :

[JEE Main 2026 (Online) 24th January Morning Shift]

- (1) $\text{I} > \text{II} > \text{IV} > \text{V} > \text{III}$ (2) $\text{IV} > \text{II} > \text{I} > \text{III} > \text{V}$
 (3) $\text{I} > \text{IV} > \text{II} > \text{V} > \text{III}$ (4) $\text{IV} > \text{I} > \text{II} > \text{V} > \text{III}$

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3								
Ans.	3	3	4								