

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

Max. Marks: 12

Questions: 3

Section A (MCQ) — 3 questions

Q.1 The major product of which of the following reaction is not obtained by rearrangement reaction ?

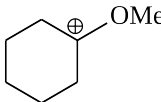
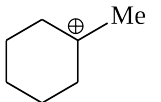
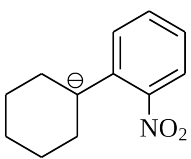
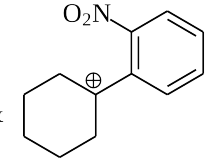
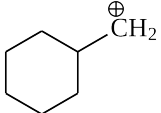
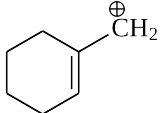
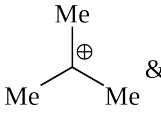
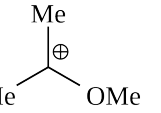
[JEE Main 2026 (Online) 8th April Evening Shift]

- (1)  + $\text{CH}_3\text{CH}_2\text{CH}_2\text{Cl} \xrightarrow{\text{Anhyd. AlCl}_3} \text{C}_6\text{H}_5\text{CH(CH}_3)_2$
- (2) $\text{CH}_3\text{C(CH}_3)_2\text{OH} \xrightarrow{\text{H}_3\text{O}^+} \text{CH}_3\text{C(CH}_3)=\text{CH}_2$
- (3) $\text{CH}_3(\text{CH}_2)_4\text{CH}_3 \xrightarrow[\text{HCl}]{\text{Anhyd. AlCl}_3} \text{CH}_3\text{CH(CH}_3)\text{CH}_2\text{CH}_2\text{CH}_3$
- (4) $\text{CH}_3\text{C(CH}_3)_2\text{CH}_2\text{OH} \xrightarrow{\text{H}_3\text{O}^+} \text{CH}_3\text{C(CH}_3)=\text{CHCH}_3$

Scan or tap for the full solution



Q.2 In which pairs, the first ion is more stable than the second?

- A.  & 
- B.  & 
- C.  & 
- D.  & 

[JEE Main 2025 (Online) 4th April Evening Shift]

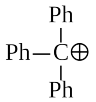
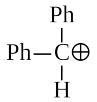
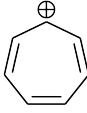
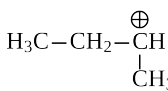
- (1) (A) & (B) only (2) (B) & (D) only
 (3) (A) & (C) only (4) (B) & (C) only

Scan or tap for the full solution



Q.3 The correct order of stability of following carbocations is :

[JEE Main 2025 (Online) 28th January Morning Shift]

-    
 A B C D
 (1) A > B > C > D (2) C > B > A > D
 (3) B > C > A > D (4) C > A > B > D

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3										
Ans.	2	1	4										