


REARRANGEMENT OF CARBOCATIONS

1. Carbocation $\text{CH}_3 - \text{CH}_2 - \overset{\oplus}{\text{CH}}_2$ rearranges to

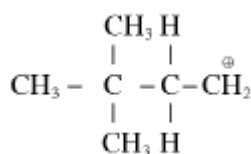
- (a) $\text{CH}_3 - \overset{\oplus}{\text{CH}} - \text{CH}_3$
- (b) $\overset{\oplus}{\text{CH}}_2 - \text{CH}_2 - \text{CH}_3$
- (c) 
- (d) $\text{CH}_2 = \text{CH} - \overset{\oplus}{\text{CH}}_2$

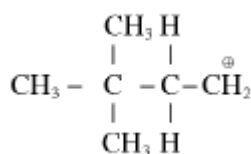
2. Carbocation $\text{CH}_3 - \overset{\text{CH}_3}{\underset{\text{CH}_3}{\text{C}}} - \overset{\oplus}{\text{CH}}_2$ rearranges to

- (a) $\overset{\oplus}{\text{CH}}_2 - \overset{\text{CH}_3}{\text{CH}} - \text{CH}_2 - \text{CH}_3$
- (b) $\text{CH}_3 - \overset{\text{CH}_3}{\underset{\oplus}{\text{C}}} - \text{CH}_2\text{CH}_3$
- (c) $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \overset{\oplus}{\text{CH}}_2$
- (d) $\text{CH}_3 - \text{CH}_2 - \overset{\oplus}{\text{CH}} - \text{CH}_2 - \text{CH}_3$

3. What will be number of α -H in finally rearranged carbocation if Undergoes rearrangement

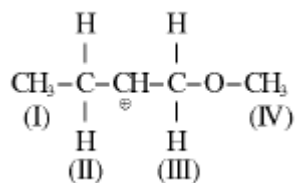
- (a) 7
- (b) 8
- (c) 9
- (d) 10

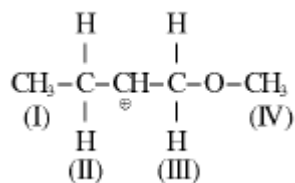


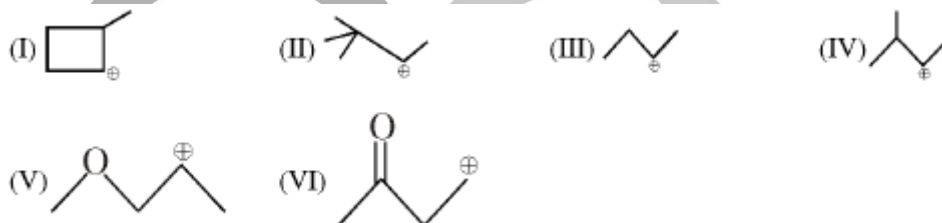
4. When carbocation  undergoes rearrangement to a most stable carbocation, Shifting involved are

- (a) Two methyl shifts

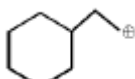
- (b) Two hydride shifts
(c) One methyl and one hydride shift
(d) Two methyl & One hydride shift

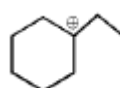
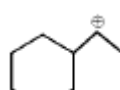
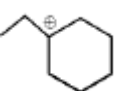
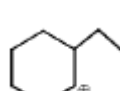


5. When carbocation  undergoes rearrangement, which atom/group will migrate to produce more stable carbocation.
- (a) I
(b) II
(c) III
(d) IV
6. When following carbocations may undergo rearrangement, hydride shifting may be involved in..... number of carbocation.

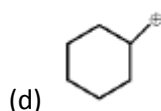
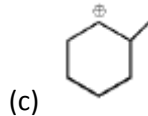
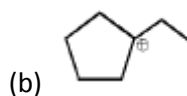
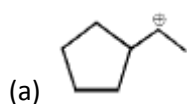


- (a) 2
(b) 3
(c) 4
(d) 5

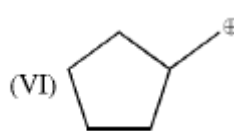
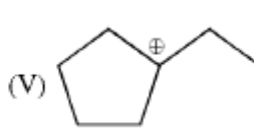
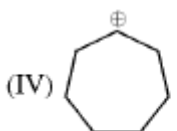
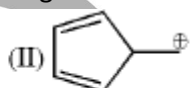
7. Carbocation  , When rearranges to most stable carbocation, which of the following is not obtained.

- (a) 
- (b) 
- (c) 
- (d) 

8.  when carbocation undergoes rearrangement, which the following can not be obtained



9. How many of the following carbocations will undergo rearrangement

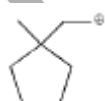


(a) 3

(b) 4

(c) 5

(d) 6

10. When carbocation  undergoes rearrangement to most stable carbocation, which of the following statement is INCORRECT about most stable carbocation.

(a) It has 6 α -H

(b) It contains two methyl groups

(c) It is formed by ring expansion

(d) methyl shifting is involved

ANSWER KEY

Ques.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Ans.	a	b	b	c	c	b	d	d	c	d

