

STABILITY OF RESONATING STRUCTURES

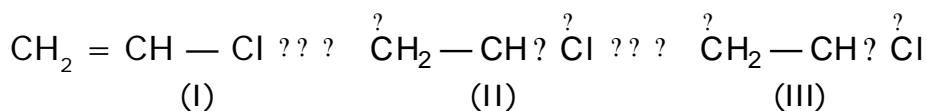
Q.1 The second most favourable structure of vinyl chloride is-

- (A) $\overline{\text{C}}\text{H}_2 - \overset{?}{\text{C}}\text{H} = \overset{?}{\text{C}}\text{Cl}:$ (B) $\text{CH}_2 = \text{CH} - \overset{\cdot\cdot}{\text{C}}\text{Cl}:$
 (C) $\overset{?}{\text{C}}\text{H}_2 - \text{CH} = \overline{\text{C}}\text{Cl}:$ (D) All equal

Q.2 Stability of $\overset{?}{\text{C}}\text{H}_2 - \text{CH} = \text{CH}_2$ can be explained by :

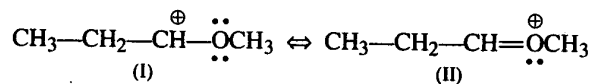
- (A) Inductive effect (B) Electromeric effect
 (C) Resonance (D) Polar effect

Q.3 The correct decreasing order of stability of following resonance structures of vinyl chloride is



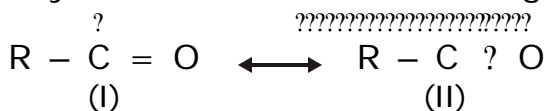
- (A) I > II > III (B) II > I > III
 (C) I > II = III (D) III > II > I

Q.4 Which of the following resonance structures is the major contributor to the resonance hybrid?



- (A) I
 (B) II
 (C) Both have equal contribution
 (D) They are not resonance structures

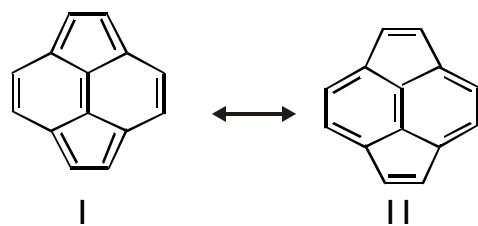
Q.5 Acyl cation has two resonating structures which are given below :



Which statement is correct for (I) and (II)

- (A) (I) is more stable than two
 (B) (II) is more stable than one
 (C) Stability of (I) and (II) will be same
 (D) For some time (I) will be more stable and for remaining time (II) will be more stable.

Q.10 The most stable resonance form is



- (A) I
- (B) II
- (C) Both have equal contribution
- (D) They are not resonance structures

ANSWER KEY

Q.No.	1	2	3	4	5	6	7	8	9	10
Ans.	A	C	A	B	B	A	C	A	A	B