

Topic : General Organic Chemistry
Type of Questions

Single choice Objective ('-1' negative marking) Q.1 to Q.4

(3 marks, 3 min.)

M.M., Min.

[12, 12]

Multiple choice objective ('-1' negative marking) Q.5 to Q.6

(4 marks, 4 min.)

[8, 8]

Subjective Questions ('-1' negative marking) Q.7

(4 marks 5 min.)

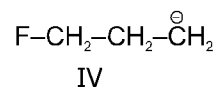
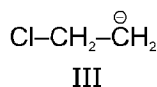
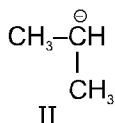
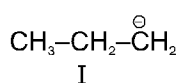
[4, 5]

Match the Following (no negative marking) Q.8

(8 marks, 10 min.)

[8, 10]

1. The correct stability order for the following is



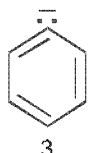
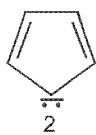
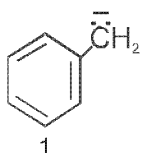
(A) III > IV > I > II

(B) I > II > III > IV

(C) IV > III > I > II

(D) III > I > IV > II

2. The stability order of :



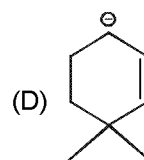
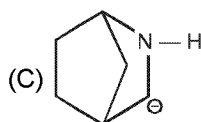
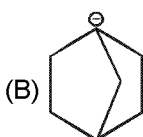
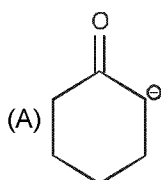
(A) 1 > 2 > 3

(B) 2 > 3 > 1

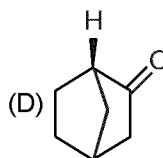
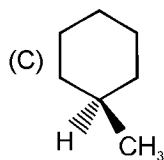
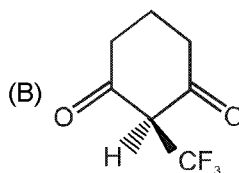
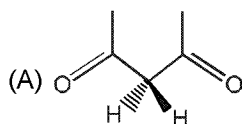
(C) 2 > 1 > 3

(D) 1 > 3 > 2

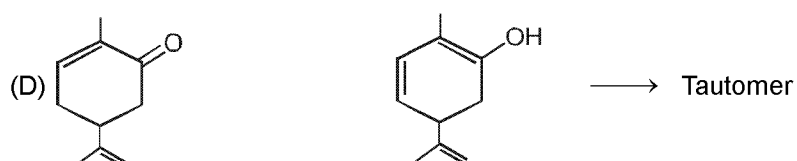
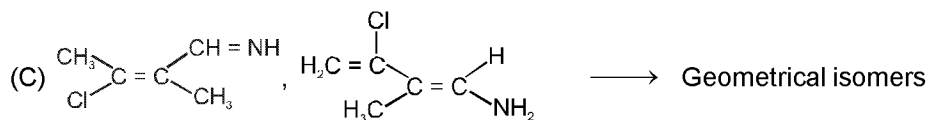
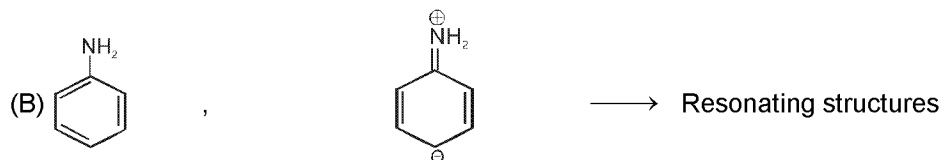
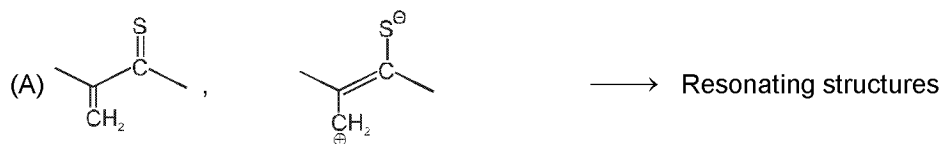
3. Which carbanion is not planar



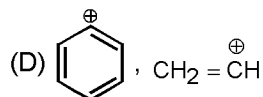
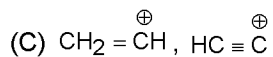
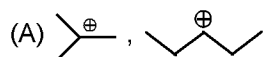
4. Which of the following do not form planar carbanion on treatment with base.



5.* Which of the following is/are correct relation between given pairs ?

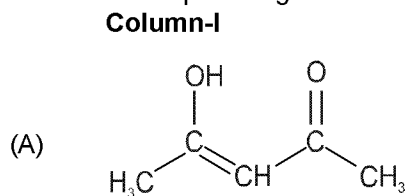


6*. In which of the following Ist is more stable than IInd :

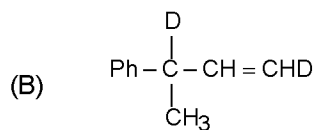


7. How many total enolic forms (including stereoisomers) are possible for $\text{CH}_3-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_2-\text{CH}_3$.

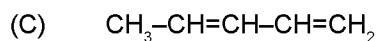
8. Match the compounds given in column-I with their electronic effect and stereoisomerism in column-II.



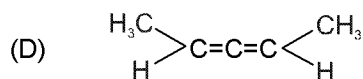
(p) Inductive effect



(q) Resonance



(r) Geometrical isomerism



(s) Optical isomerism

(t) Chiral carbon

Answer Key

DPP No. # 7

1. (A) 2. (C) 3. (B) 4. (C) 5.* (ABD)
 6*. (ABC) 7. 7 8. (A) - (p, q, r) ; (B) - (p, q, r, s, t) ; (C) - (p, q, r) ; (D) - (p, s)

Hints & Solutions

DPP No. # 7

- Stability of carbon increases by electron withdrawing group.
- Stability of aromatic species is greatest.
- sp^3 hybridised carbanion is not planar species.
- * In option (A) Conjugation of π -bonds.
 In option (B) +M effect of $-NH_2$ group
 In option (C) Functional isomers.
 In option (D) Tautomers.
- The charge on more electropositive element is more stable.

