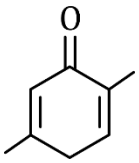
DPP-02

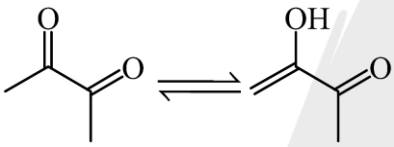
Q.1 

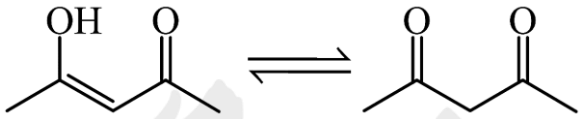
Number of deutorium (D) present in final product obtained on prolong treatment with $NaOD/D_2O$

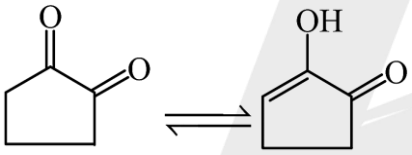
(A) 6 (B) 9

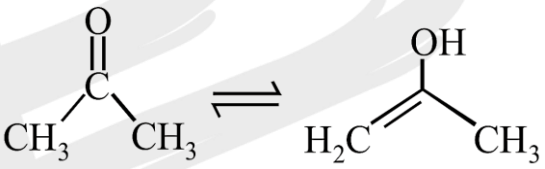
(C) 10 (D) 5

Q.2 The tautomerism having Keq more than 1.0

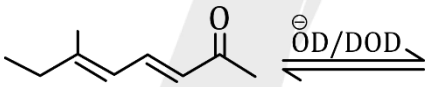
(A) 

(B) 

(C) 

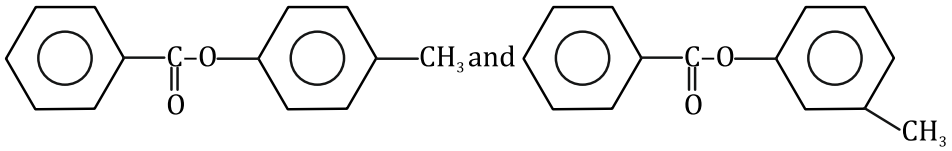
(D) 

Q.3 How many H (Hydrogens) will be replaced by D (Deuterium) in given compound when it is kept in mild basic medium for a long time.



(A) 3 (B) 6

(C) 10 (D) 8

Q.4 

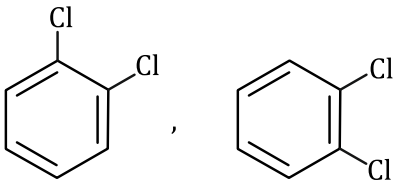
(A) Position isomers

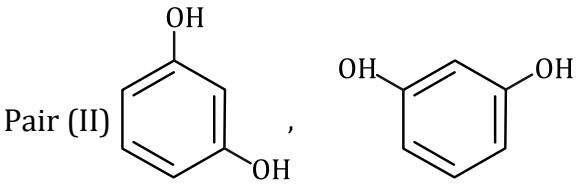
(B) Chain isomers

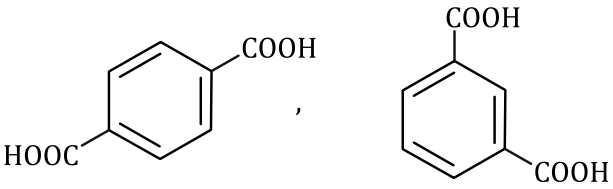
(C) Functional isomers

(D) Metamers

Q.5 Identify the correct relation between the following pairs of compounds.

Pair (I)  ,

Pair (II)  ,

Pair (III)  ,

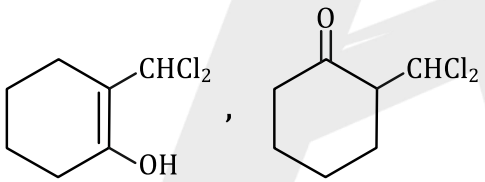
(A) All Pairs I, II, III, are identical

(B) All Pairs I, II, III, are isomers

(C) Pair I, II are identical, Pairs III is isomer

(D) Pairs I is identical and Pairs II, III are isomer

Q.6 Which of the following pairs are tautomers

(i)  ,

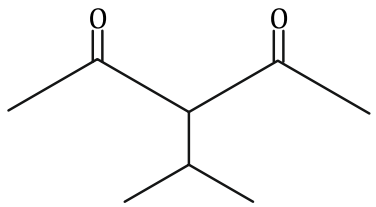
(ii) $HO-CH_2-CH=CH_2$, $O=CH-CH_2-CH_3$

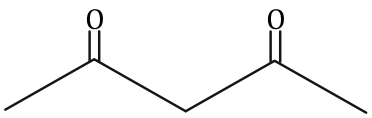
(iii) $CH_3-\overset{\overset{O}{\|}}{C}-\overset{\overset{O}{\|}}{C}-CH_3$, $CH_3-\overset{\overset{HO}{|}}{C}=\overset{\overset{OH}{|}}{C}-CH_3$

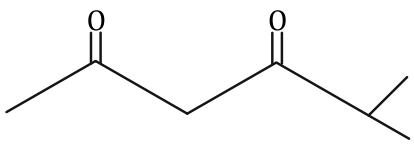
(A) only (i)and (ii) (B) only (ii)

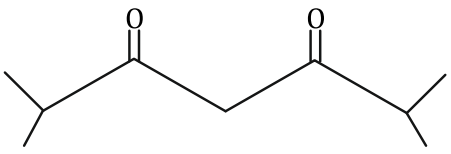
(C) only (i) (D) only (iii)

Q.7 In which of the following compounds % of enol is highest.

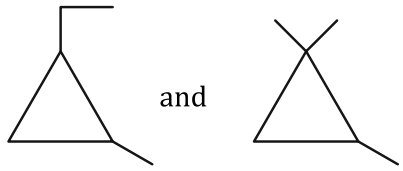
(A) 

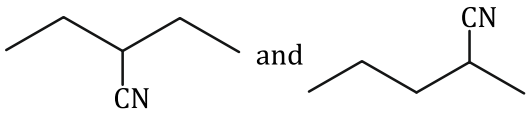
(B) 

(C) 

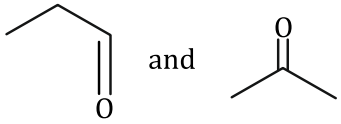
(D) 

Q.8 Which of the following pairs of compounds are chain isomers.

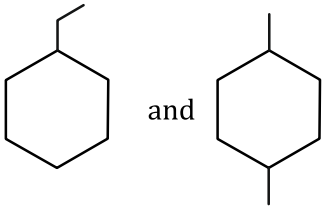
(A)  and

(B) 

and

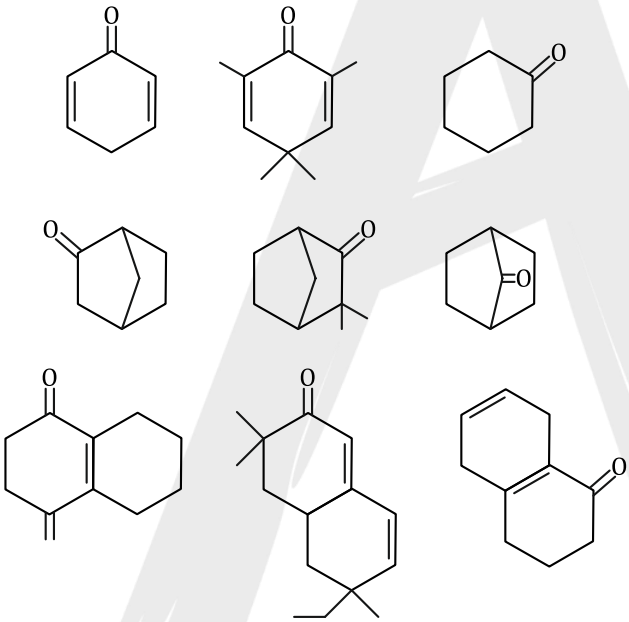
(C) 

and

(D)  and

Q.9 Total number of cyclic structure isomers of C_4H_6 are: -

Q.10 Total number of compounds which can show tautomerism: -



ANSWER KEY

1.	(A)	**2.**	(D)	**3.**	(C)	**4.**	(D)	**5.**	(C)
6.	(C)	**7.**	(D)	**8.**	(A,B,D)	**9.**	(5)	**10.**	(6)