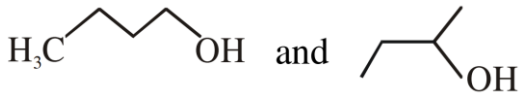
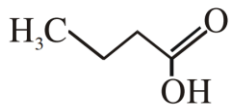
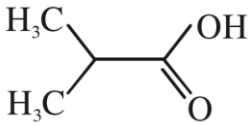
STRUCTURAL ISOMERISM

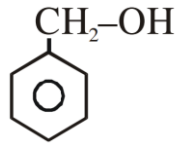
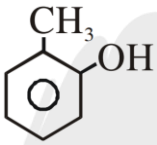
DPP-01

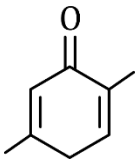
1. Which of following pairs of compounds are position isomers.

(A)  and

(B) $CH_3-CH_2-CH_2-CN$ and $CH_3-\underset{\underset{CN}{|}}{CH}-CH_3$

(C)  and 

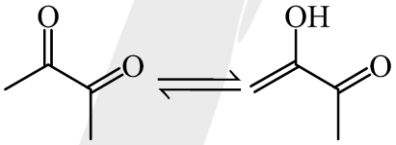
(D)  and 

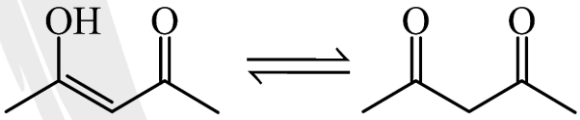
2. 

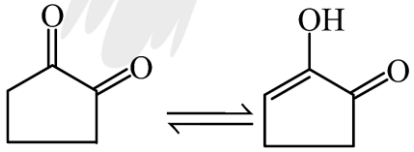
Number of deutorium (D) present in final product obtained on prolong treatment with $NaOD/D_2O$

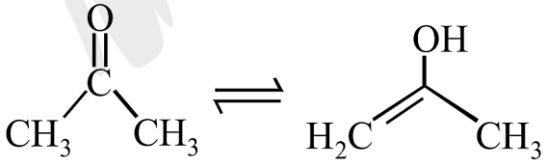
(A) 6 (B) 9 (C) 10 (D) 5

3. The tautomerism having Keq more than 1.0

(A) 

(B) 

(C) 

(D) 

4. (a) How many alcohols are structural isomers with the formula $C_5H_{12}O$?

(b) How many pair of metamer are possible for $C_5H_{12}O$.

5. Correct statements regarding compounds having molecular formula $C_5H_{10}O$ is :

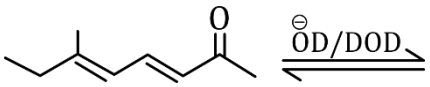
(A) It has four structurally isomeric aldehyde, all can show tautomerism

(B) It has four structurally isomeric aldehyde, out of four three can show tautomerism

(C) It has three structurally isomeric ketones, all can show tautomerism

(D) It has three structurally isomeric ketones, no one can show tautomerism

6. 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

7. How many total number of structural isomers of $C_4H_6Cl_2$ are possible having cyclic structures.