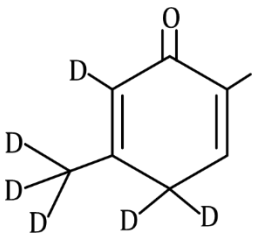
DPP-02

SOLUTION

Link to View Video Solution: Click Here

Q.1 OPTION (A)



Total number of hydrogens that will be replaced by deutorium is 6

Q.2 OPTION (D)

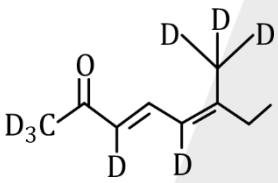
(A) Enol form is more stable due to chelation (hydrogen bonding)

(B)enol is more stable due to chelation and conjugation

(C) enol is more stable due to chelation and conjugation

(D)keto is more dominating hence Keq is more than 1

Q.3



Total hydrogen that are replaced by dueterium= 8

Q.4 All isomeric esters are metamers

Q.5 (i) Both are o-dichlorobenzene hence identical

(ii) Both are 1, 3-dihydroxybenzene hence identical

(iii) These are positional isomer

Q.6 In (ii) No tautomerism because –OH group is not bonded to C = C

In (iii) Compounds are not isomers.

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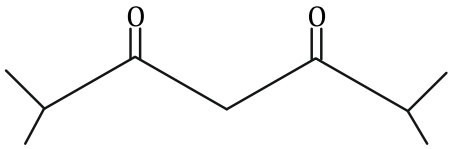
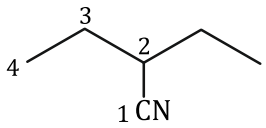
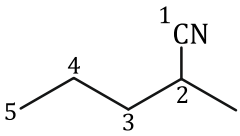
Q.7



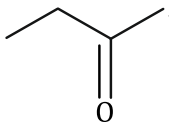
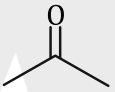
If size of terminal alkyl groups increases than percentage of enol is also increases.

Q.8 (A) & (D) are chain isomers due to change is its attached alkyl substituents.

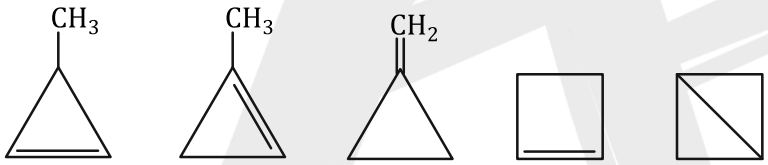
(B)  and 

PCC = 4 PCC = 5

Hence chain isomers.

(C)  (Aldyhyde)  (Ketone)

Hence Both are functional isomers.

Q.9 

Q.10