

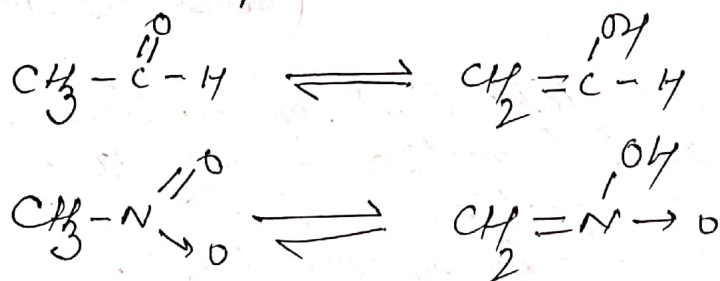
For B.Sc-II, PAPER-III (C)

TAUTOMERISM

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TAUTOMERISM:

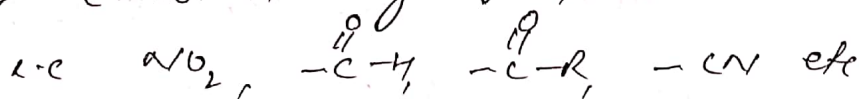
The phenomenon where two or more structures can be written for a single molecule of certain compound, is called Tautomerism



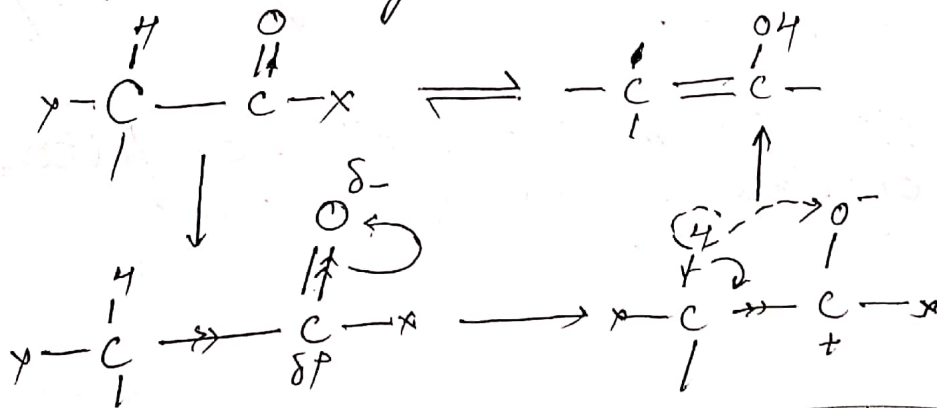
Conditions:

Following two conditions are responsible for tautomerism

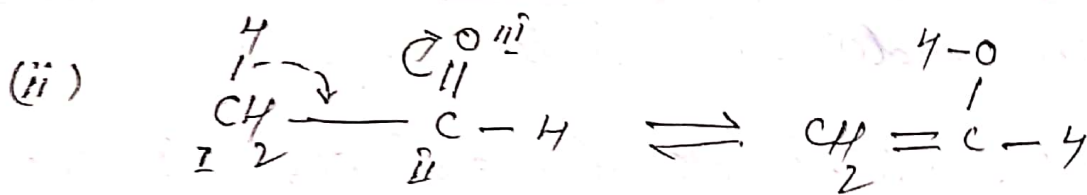
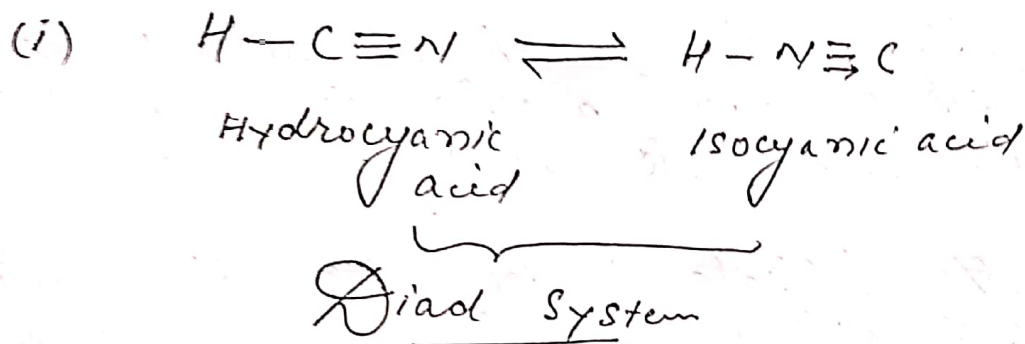
(1) It must carry atleast one multiple bonded \bar{e} -withdrawing group.



(2) It carry atleast one α -H



- ① If the H-atom oscillates between two polyvalent atoms linked together, this system is a dyad system
- ② If the H-atom oscillates from one atom to third atom the system is called triad system



Effect of Solvent On Enol content

Enolic content increases in non-polar aprotic solvent (e.g. Benzene, hexane) and decrease in polar aprotic solvent

Enolic content order in different solvents

