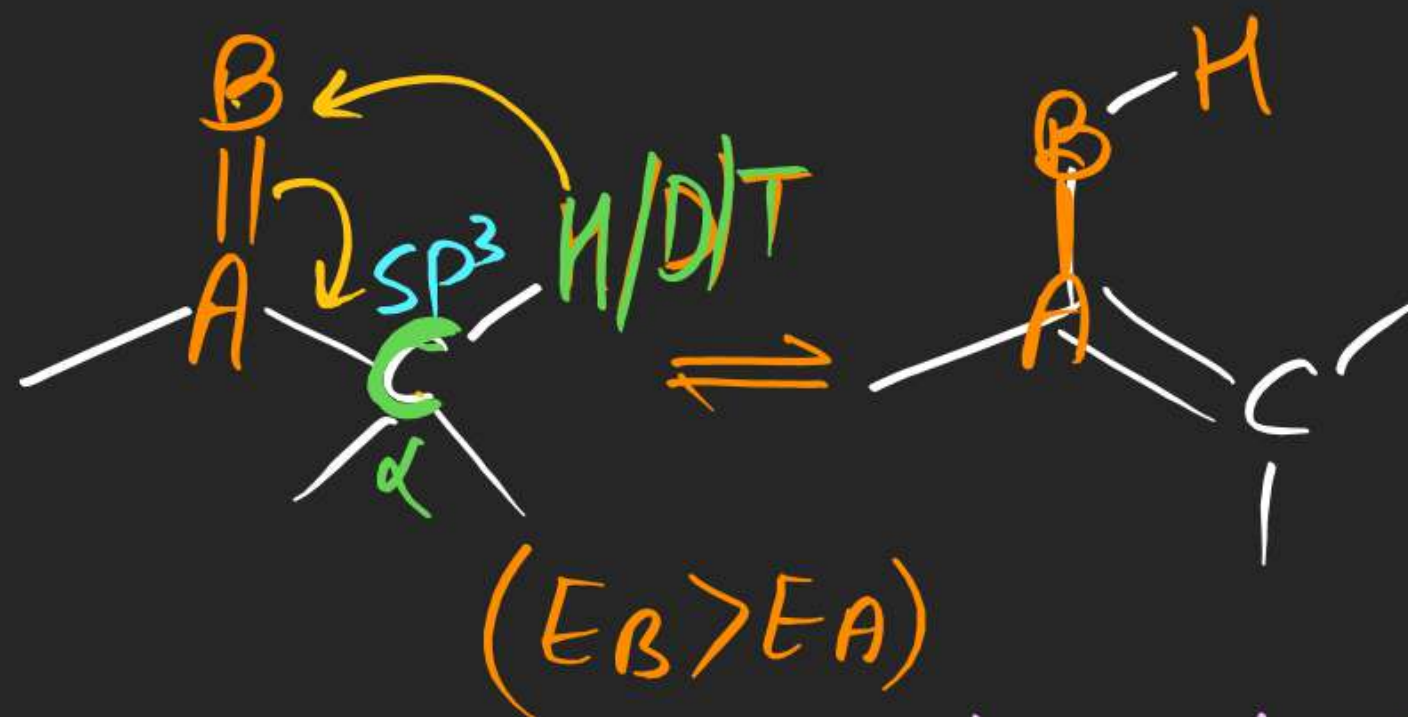
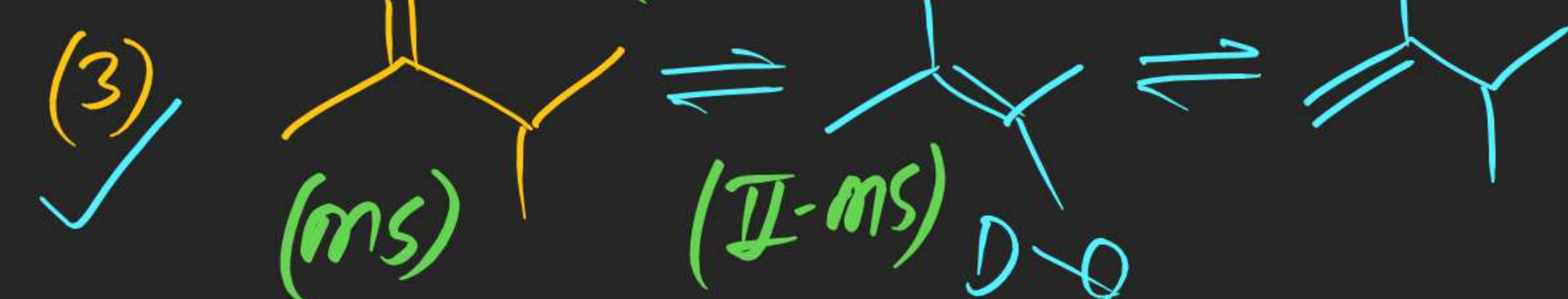
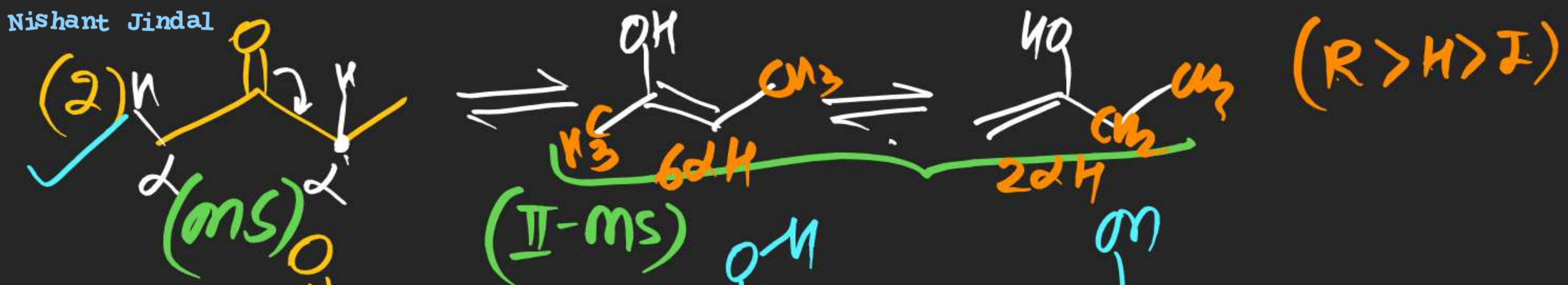


(#) Condition of Tautomerism:

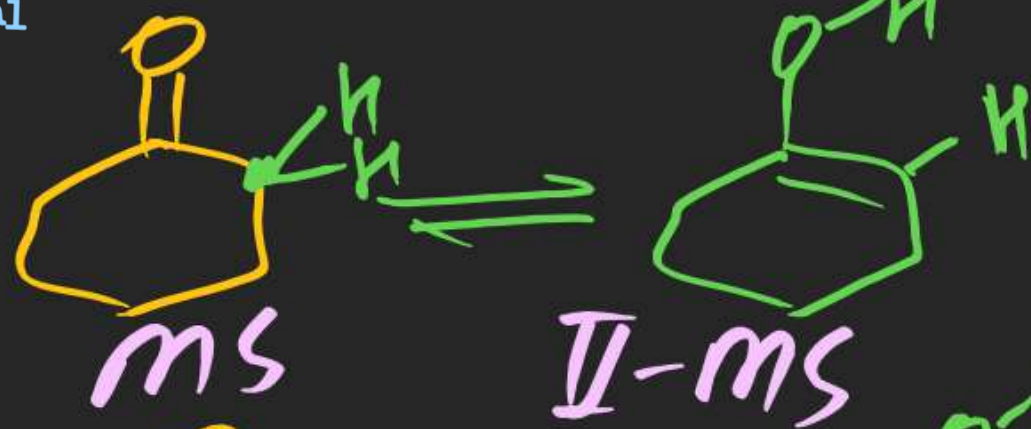


Ex: Identify compounds which can show tautomerism & also draw its First two stable tautomers.

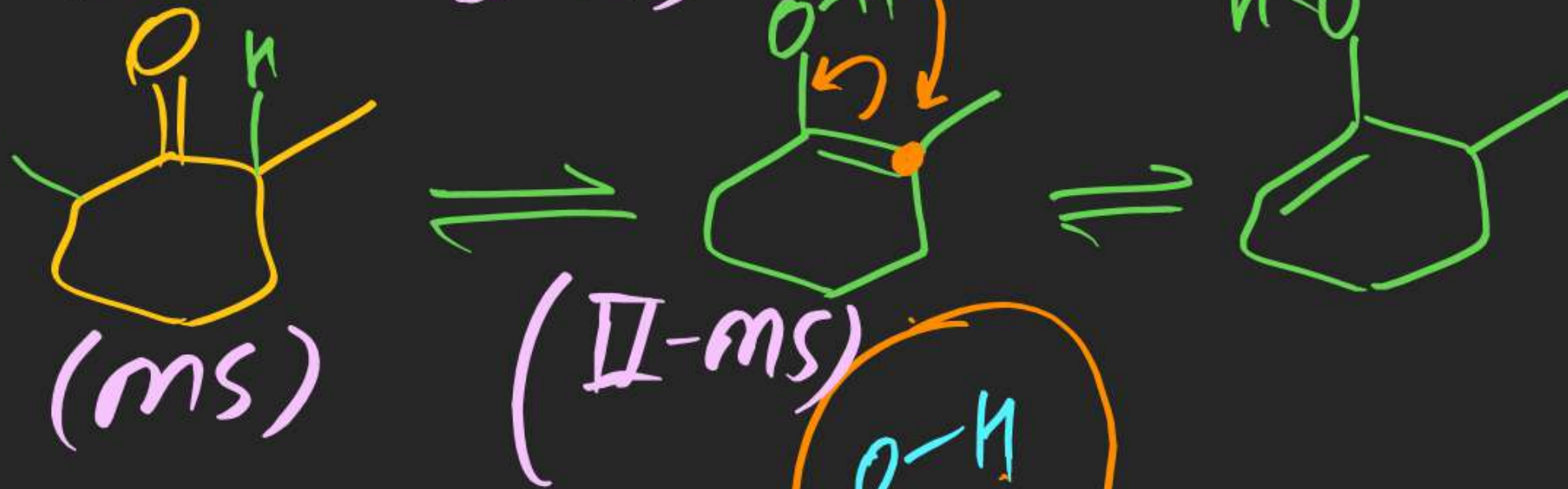




(12)



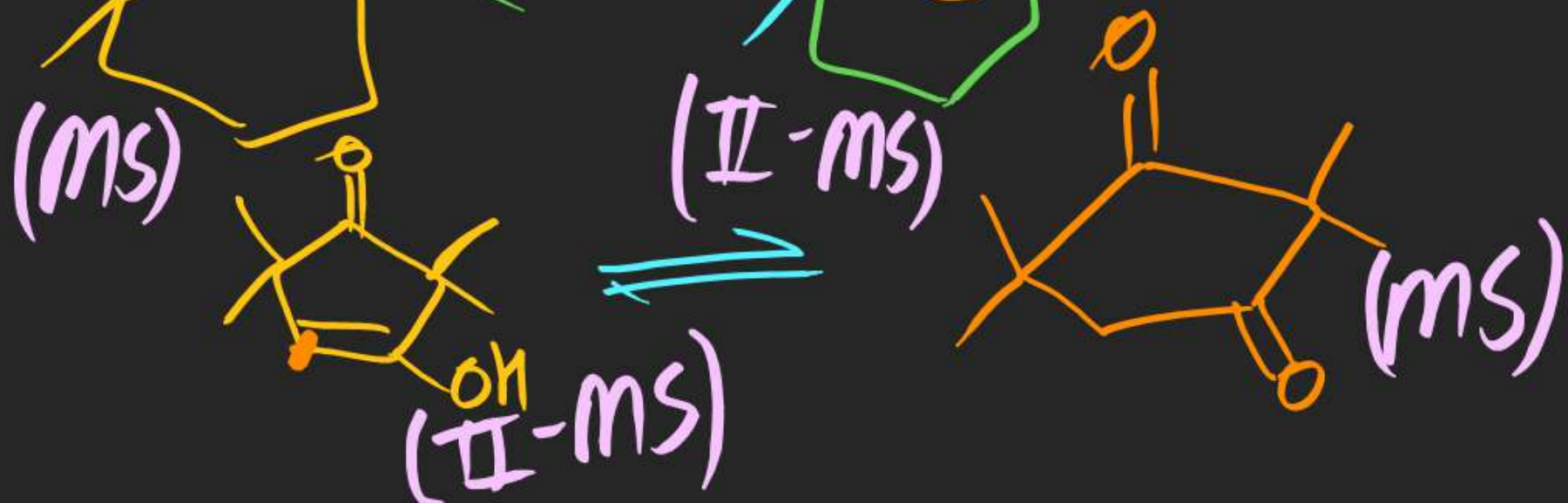
(13)



(14)

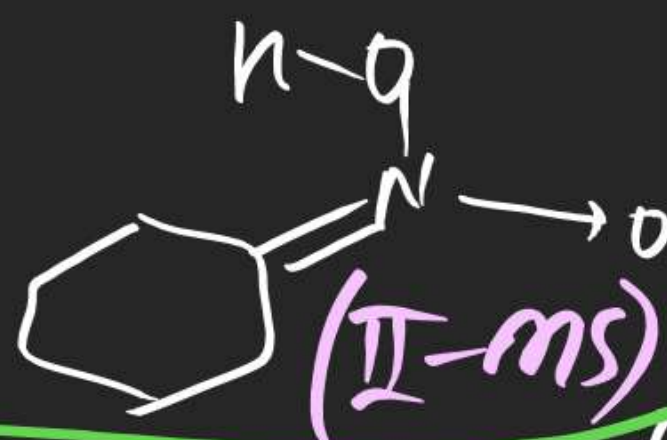
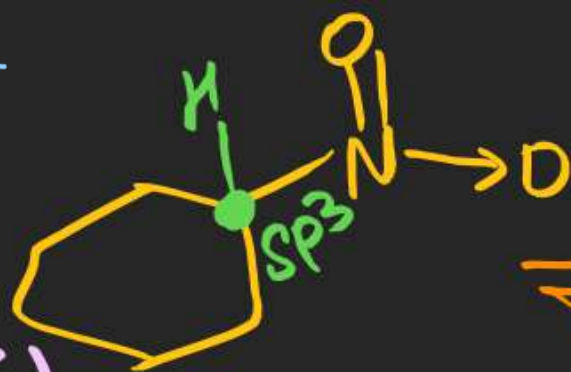


(15)



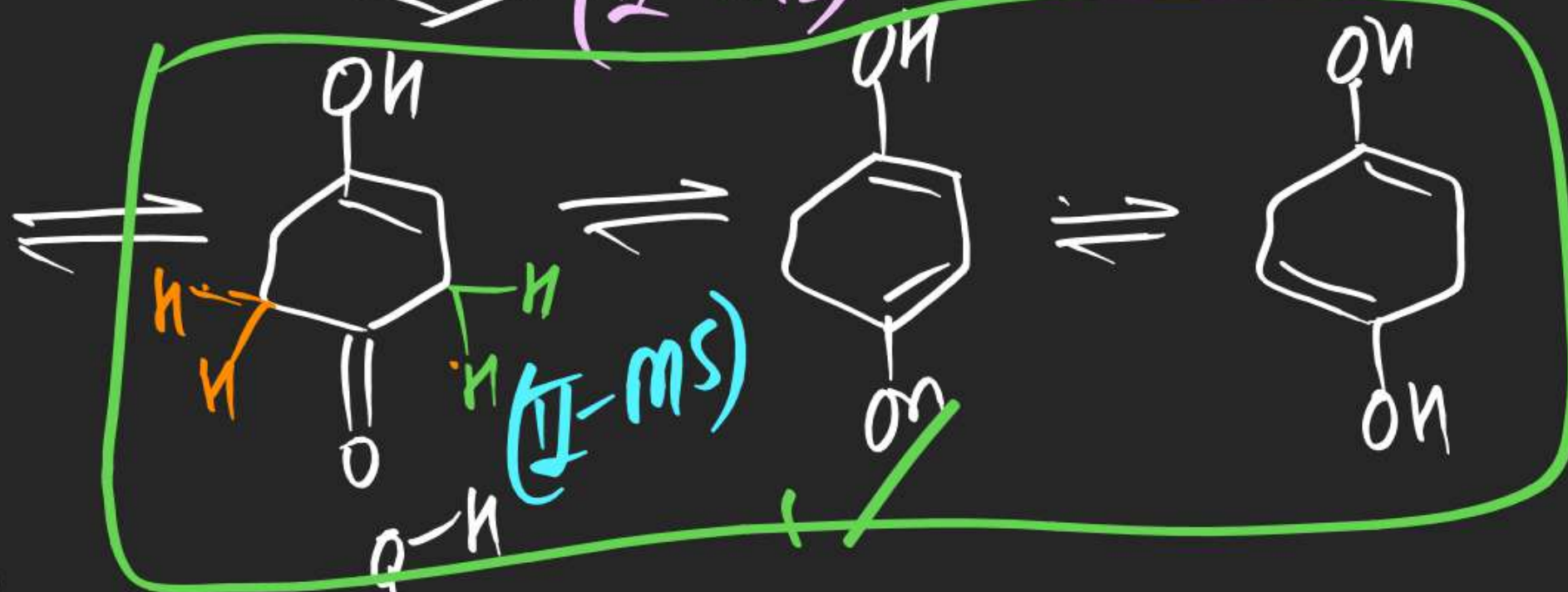
(16)

(ms)



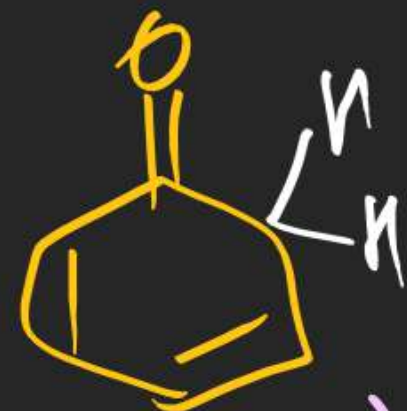
(17)

(ms)



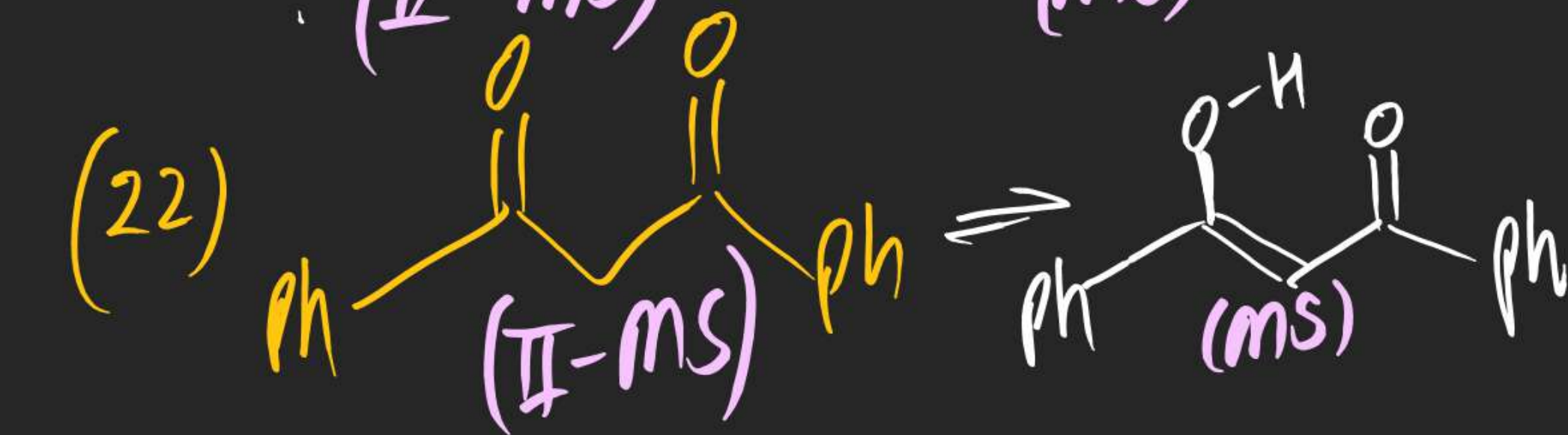
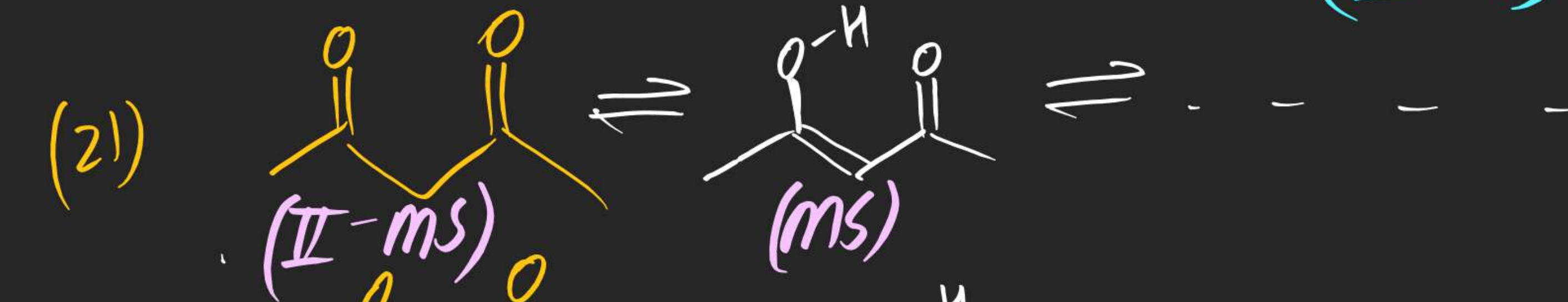
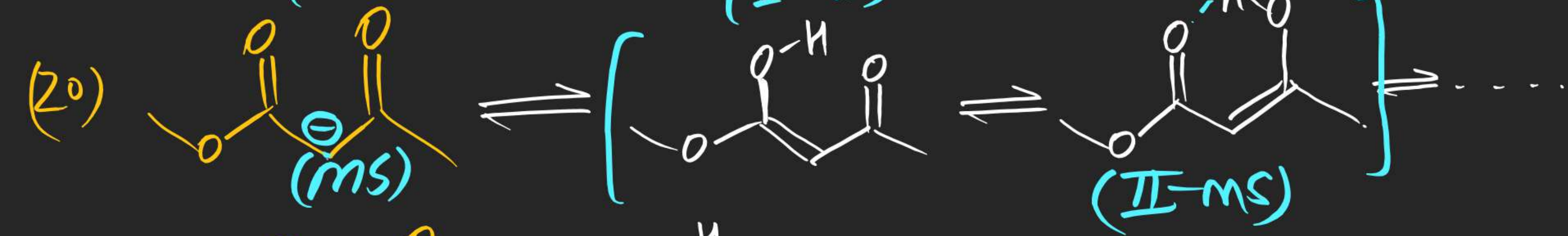
(18)

(II-ms)

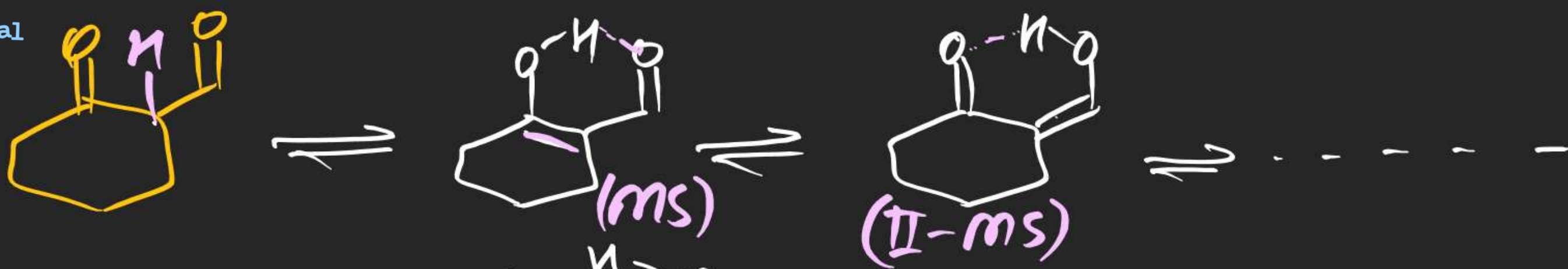


(ms)





(23)



(24)

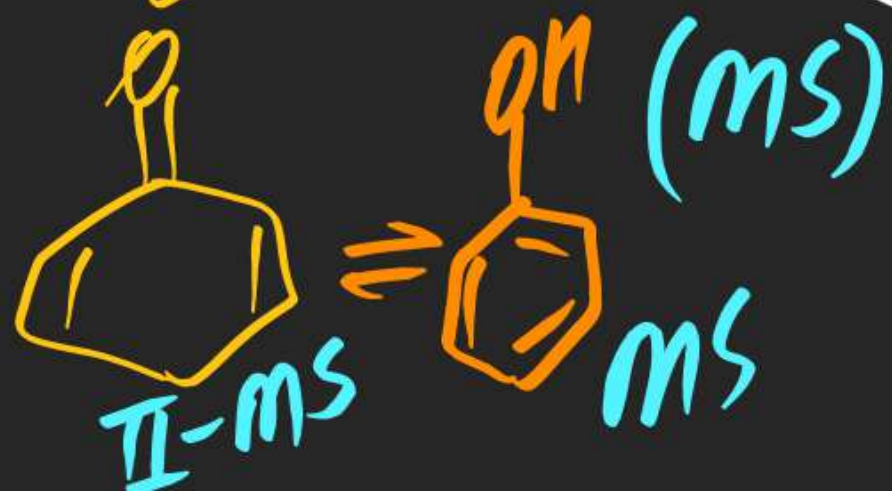


(25)



(II-ms)

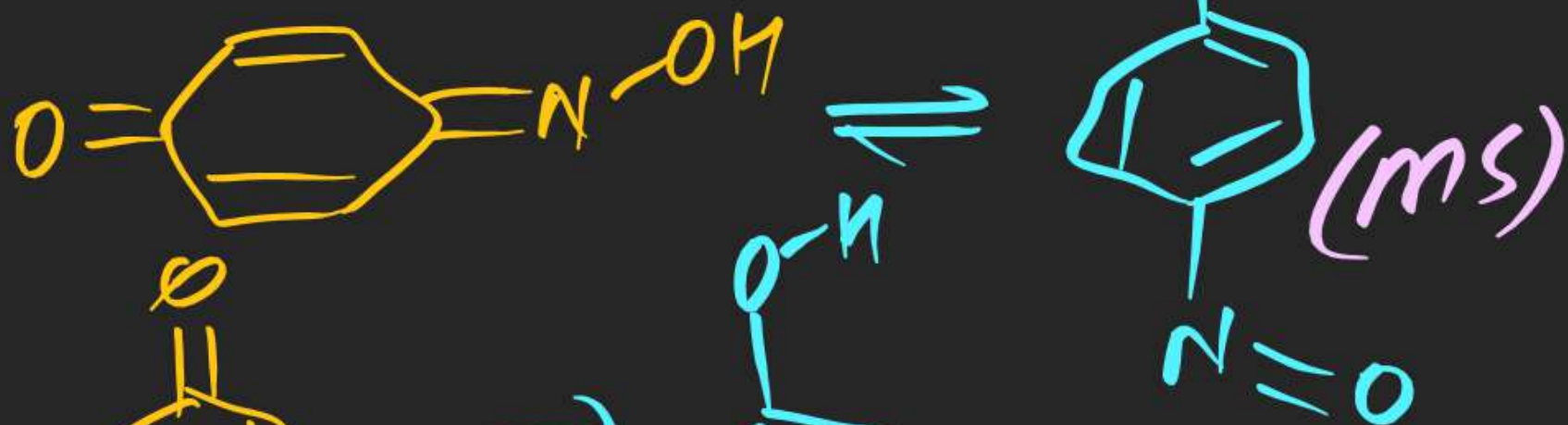
(26)



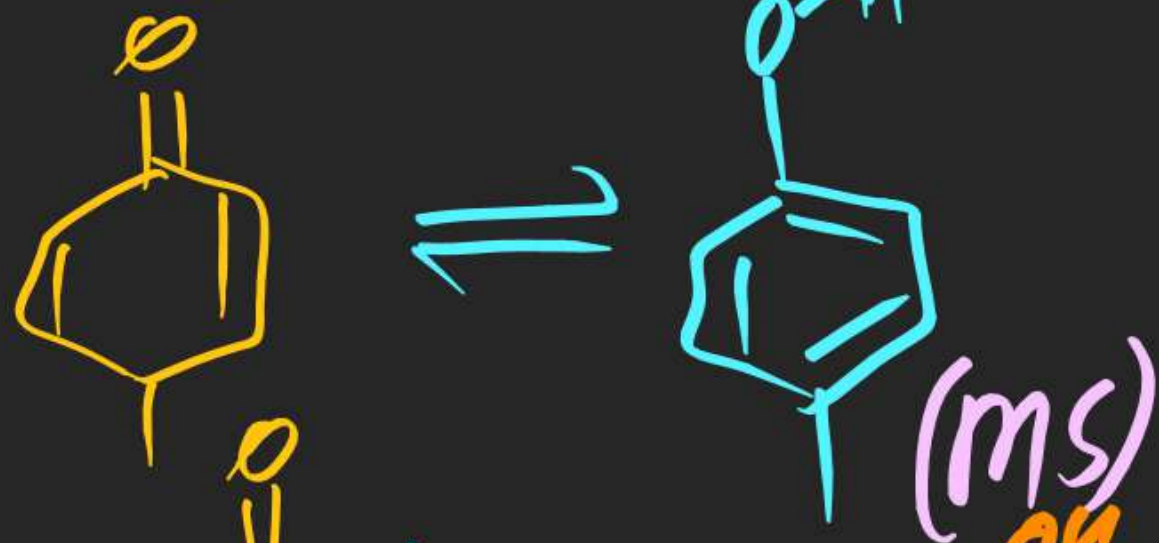
(27)



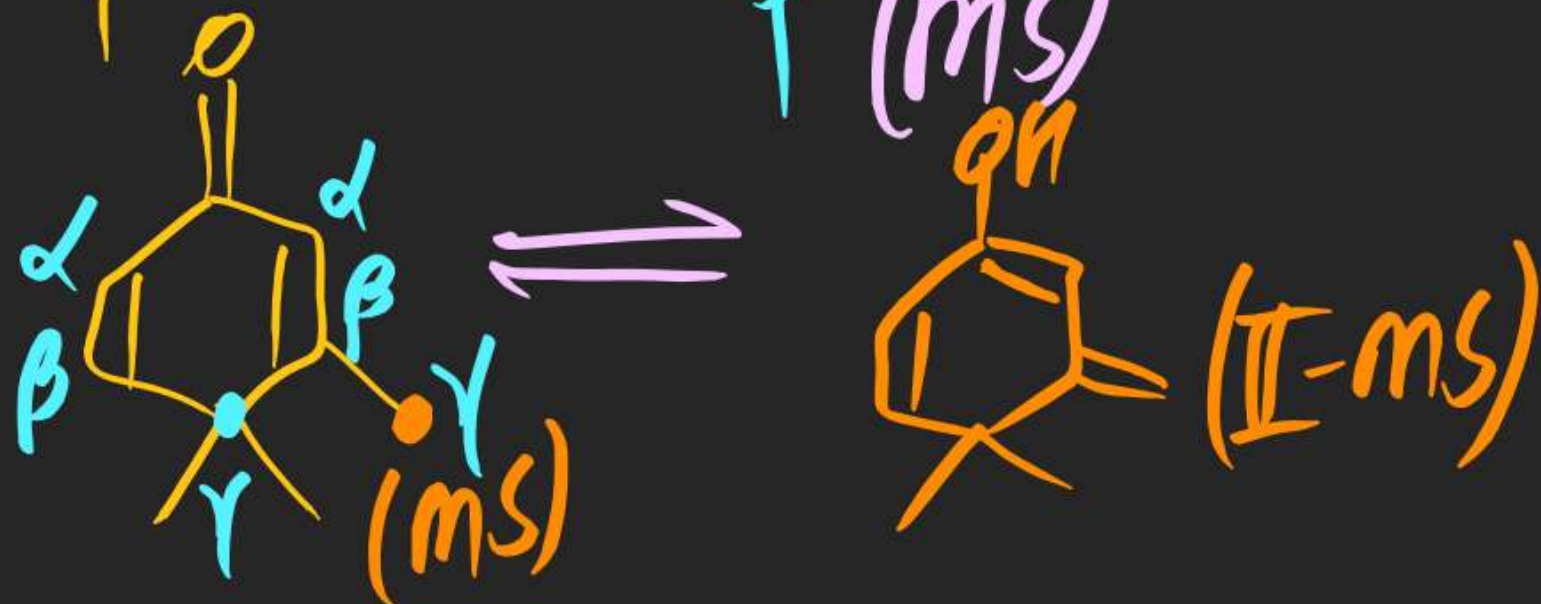
(28)

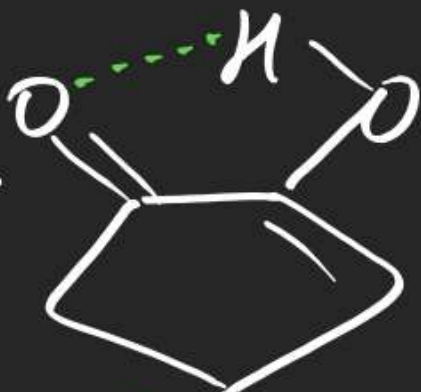
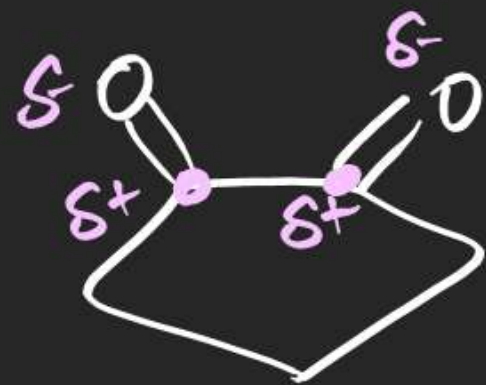


(29)



(30)





(99.99%)

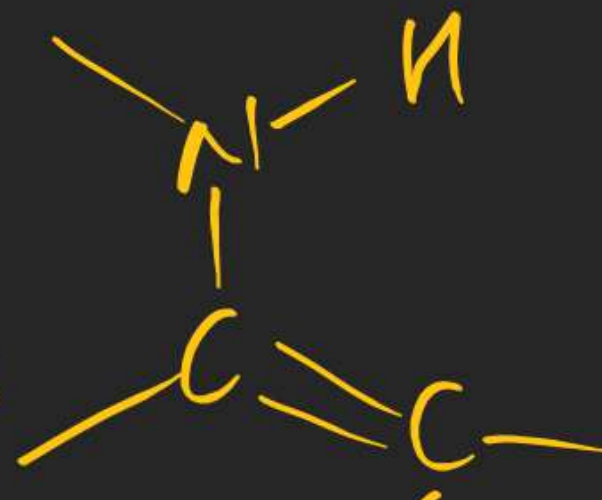
$[Enol] > [Keto]$

LX-2!

Imine-Enamine Tautomerism!!



Imine

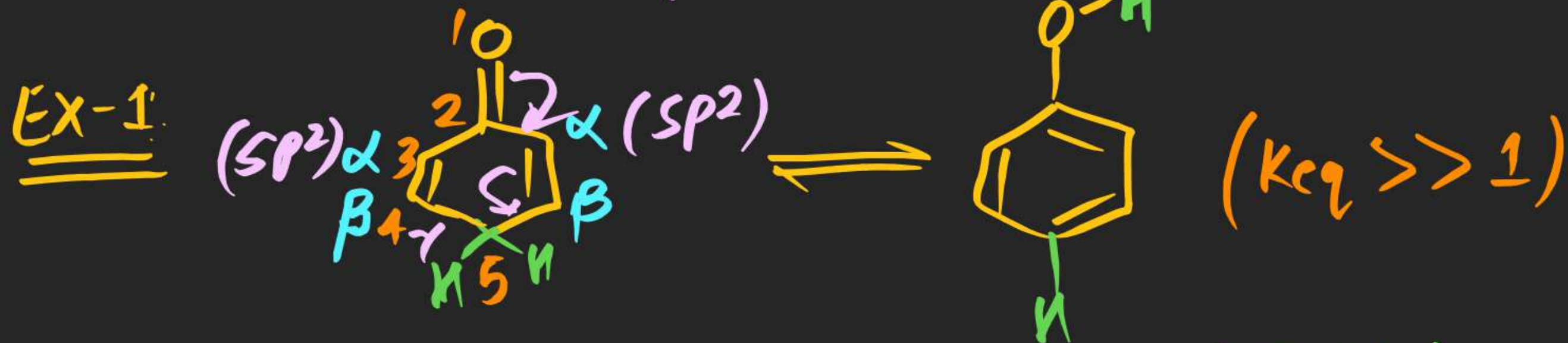


Enamine

$K_{eq} < 1$

(3) Space Tautomerism:

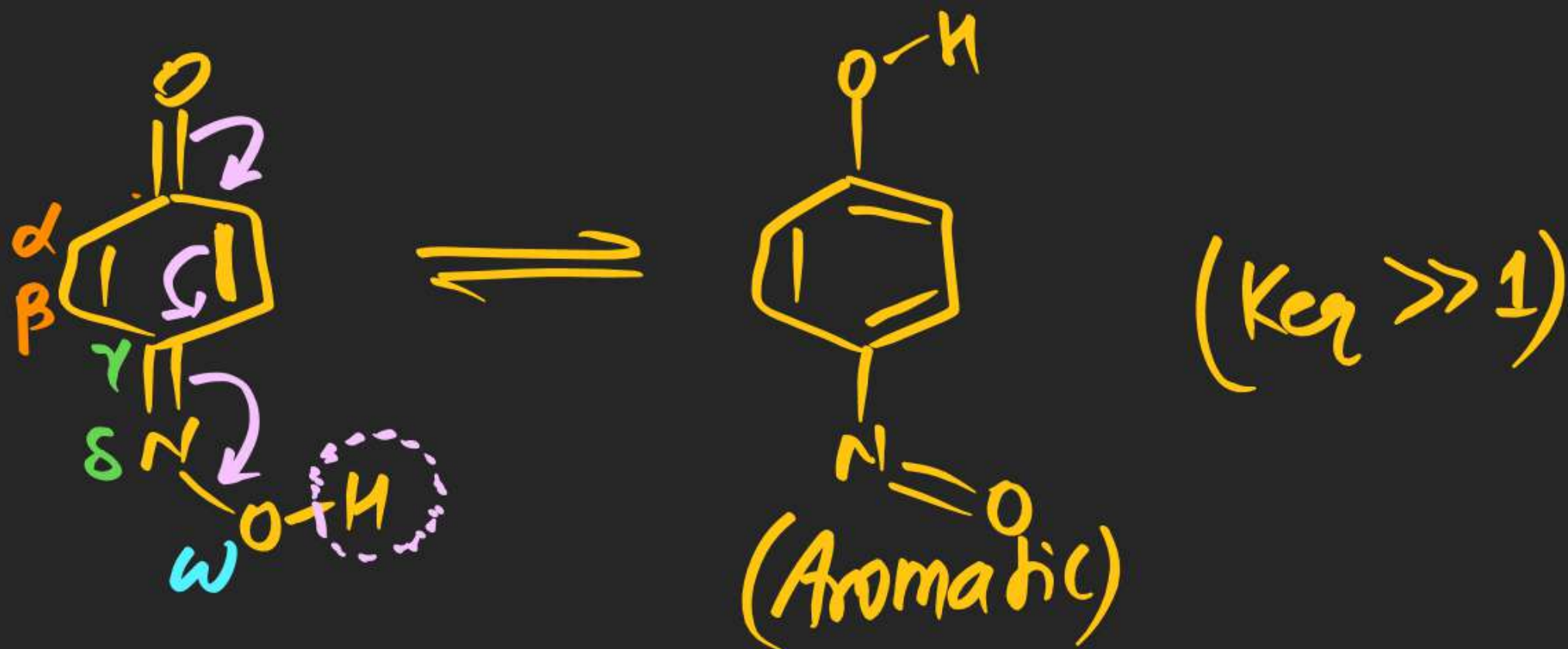
⇒ Tautomeric system other than Diaid & Triad system
are known as space Tautomerism



Aromatic (stable)

$$K_{eq} = \frac{[\text{Aromatic}]}{[\text{Non-Aromatic}]}$$

Ex-2:

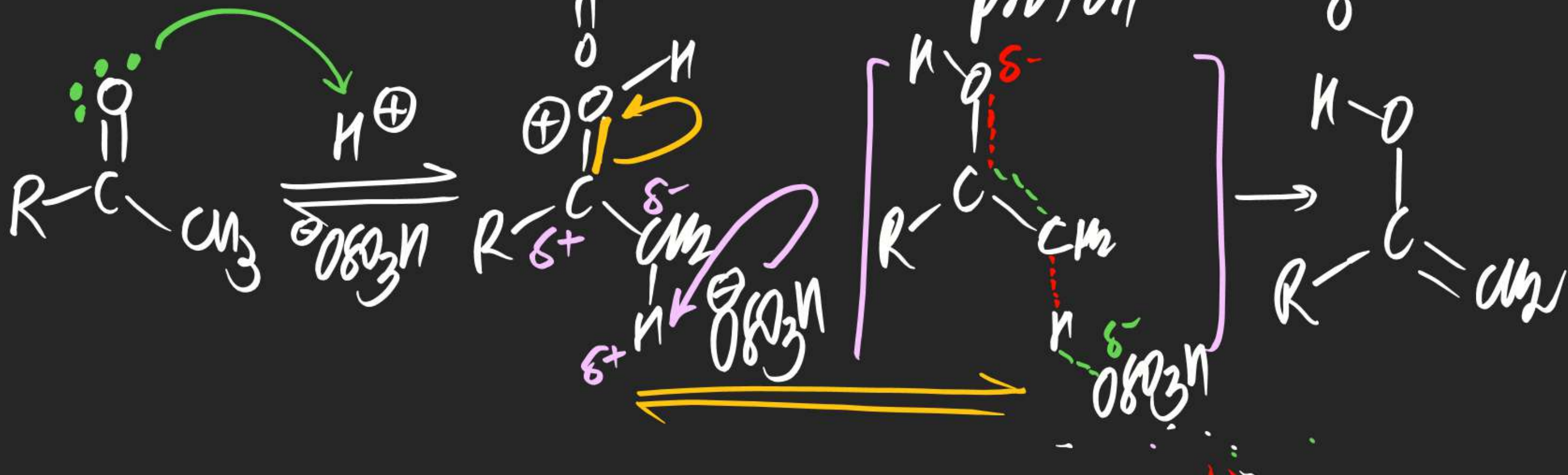


Note:- (i) Keto \rightleftharpoons Enol can be catalysed both by Acid & Base catalyst.

(i) Keto to Enol:-

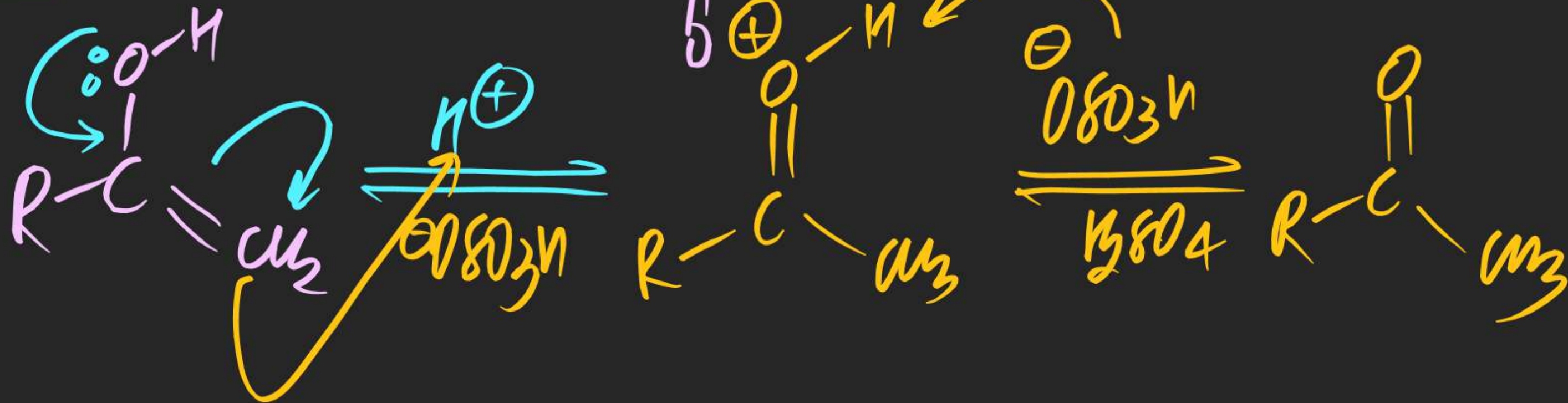


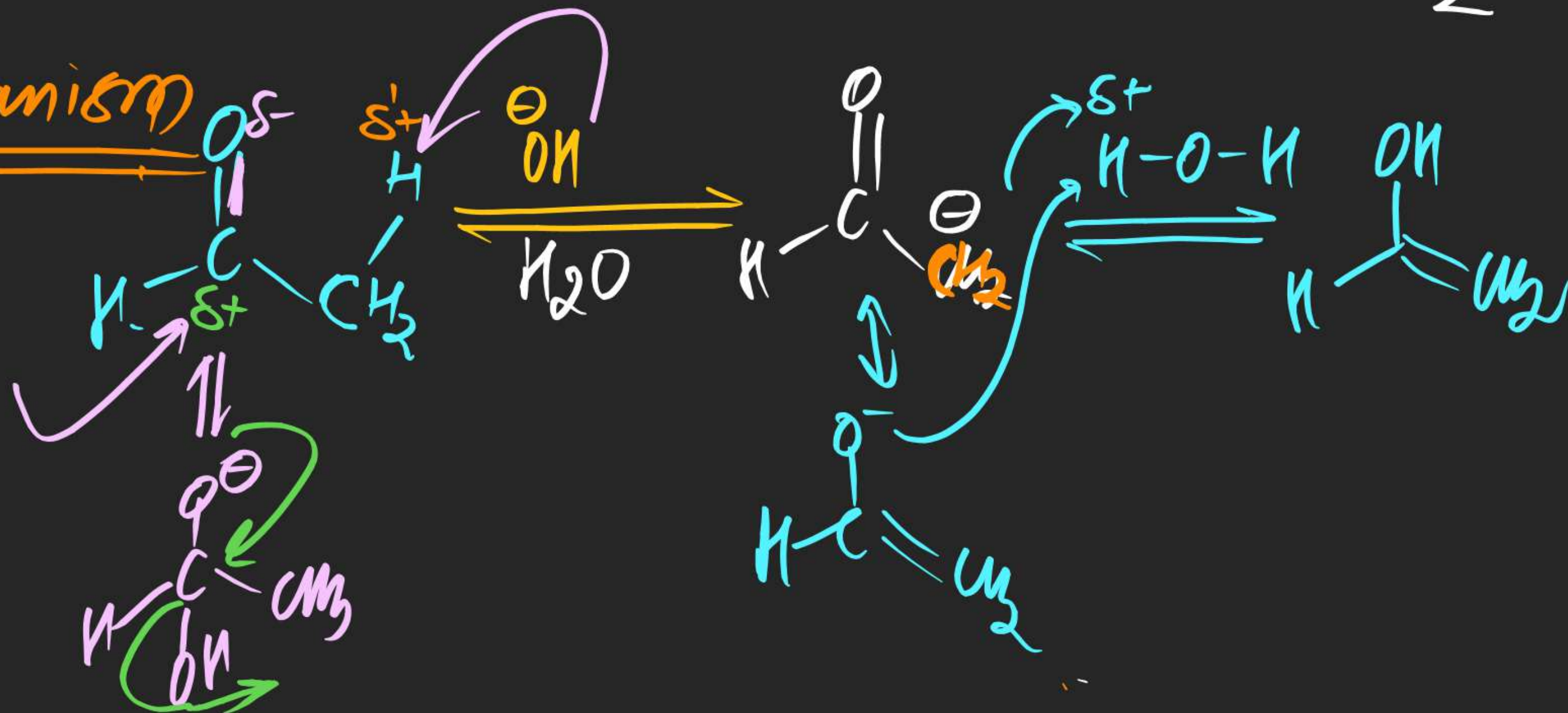
mechanism:



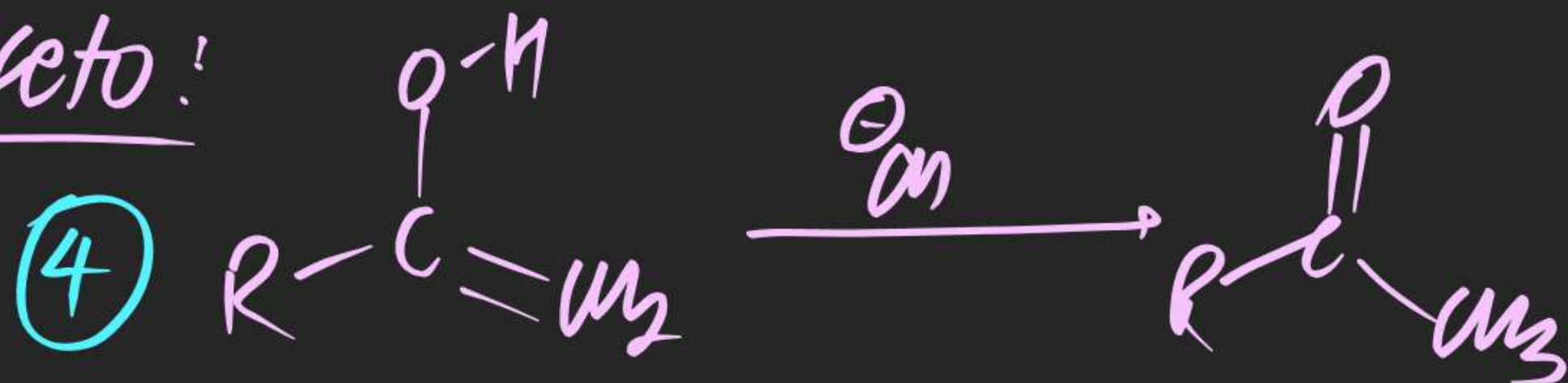
(ii) Enol to Keto:

(2)

mechⁿ

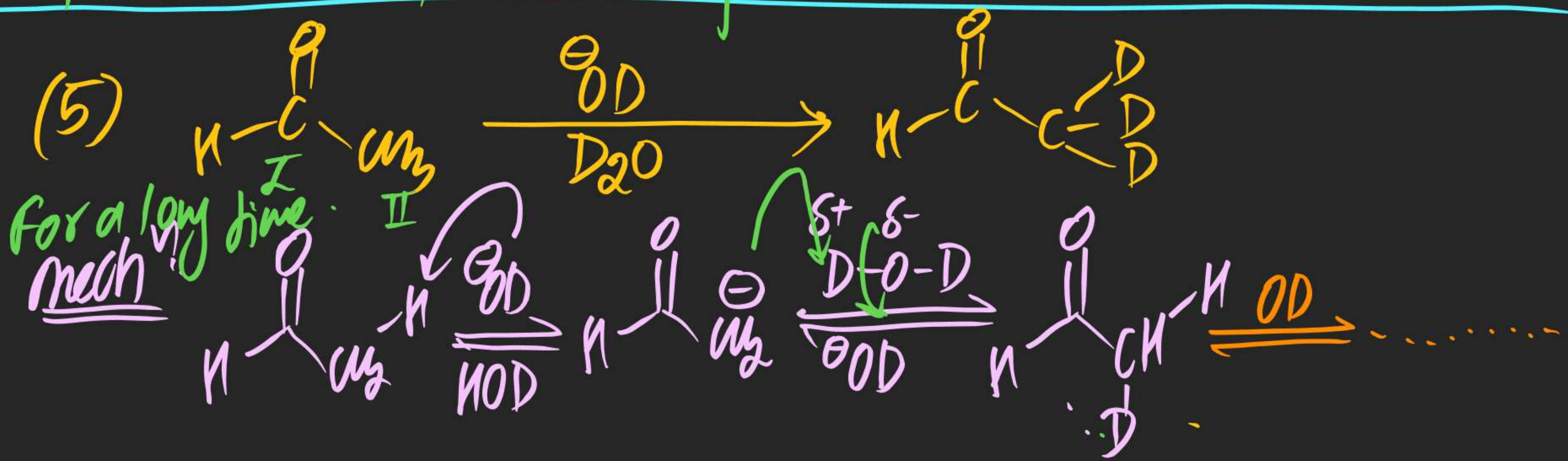
In Basic condition:(i) Keto to EnolMechanism

(#) Amol to keto!



mechⁿ!

Kinetic Isotopic Exchange!



(13)



(14)



(6)



(7)



(8)



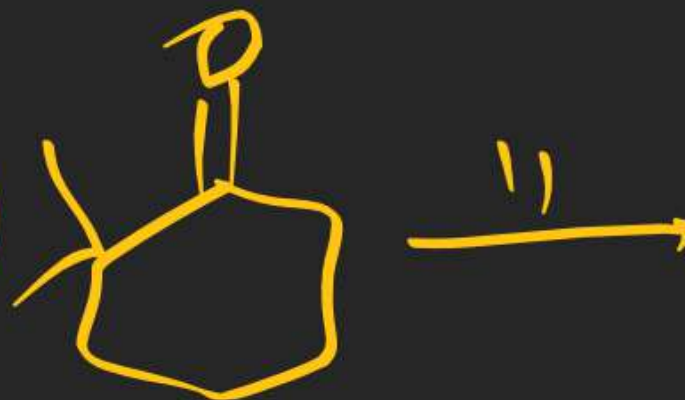
(9)



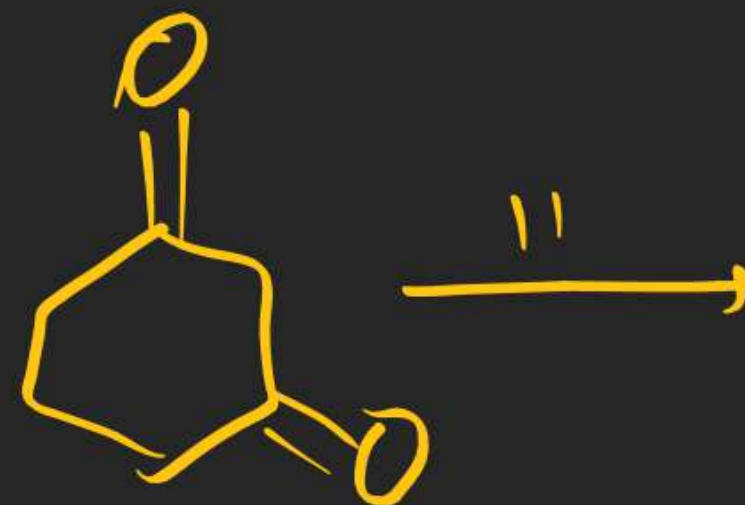
(10)



(11)



(12)



(15)



(16)



(17)



(BB) GOC Mains Ex
(1-40) Qw

(GOC sheet)
complete

