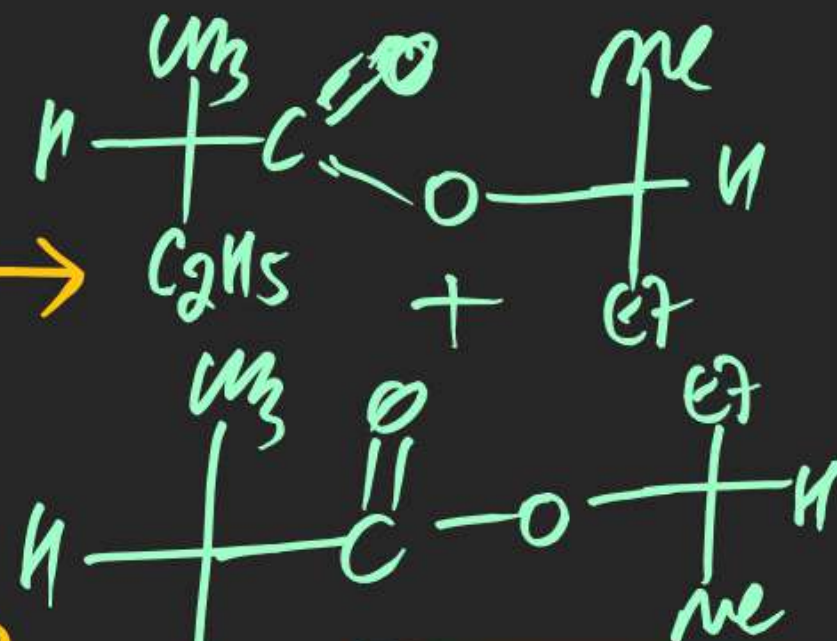
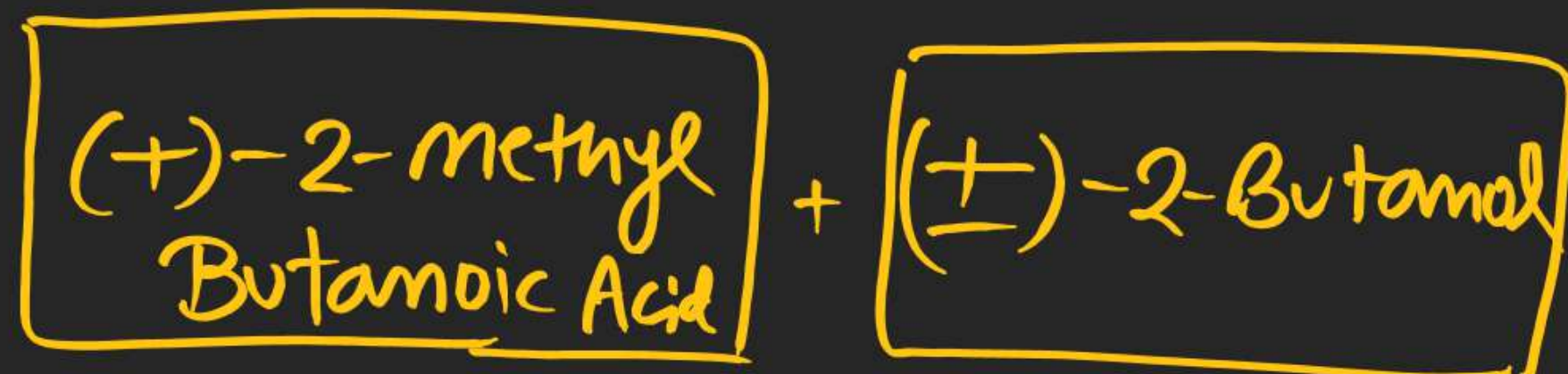


STEREISOMERISM

Ex-2:



Ex-3:



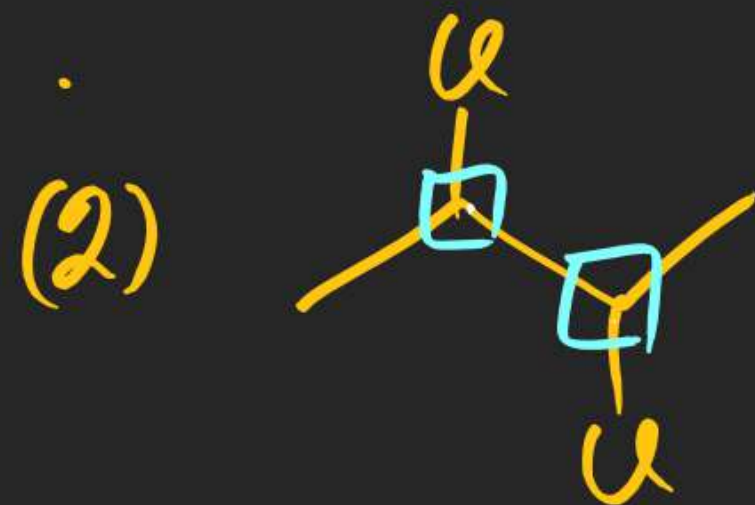
EX-1 + EX-2
(4 products)

Ex-4: Find Total no. of Compounds which can be used to convert enantiomeric mixture of Carboxylic Acid into Diastereomeric mixture.

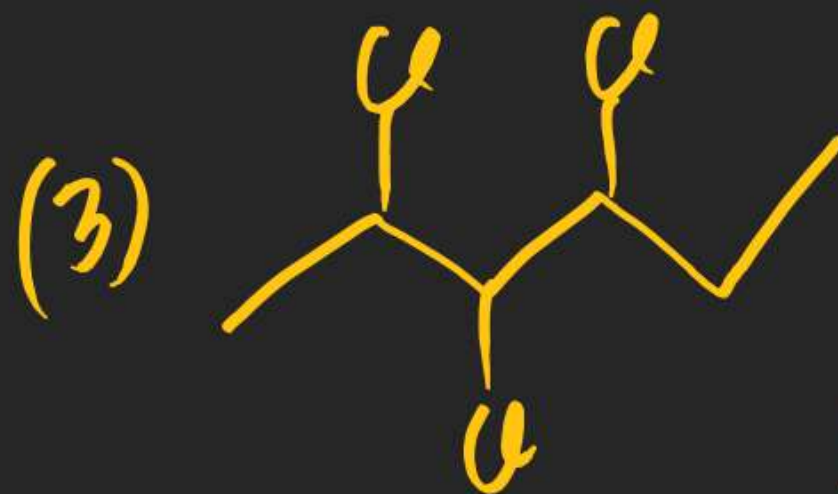
STEREISOMERISM



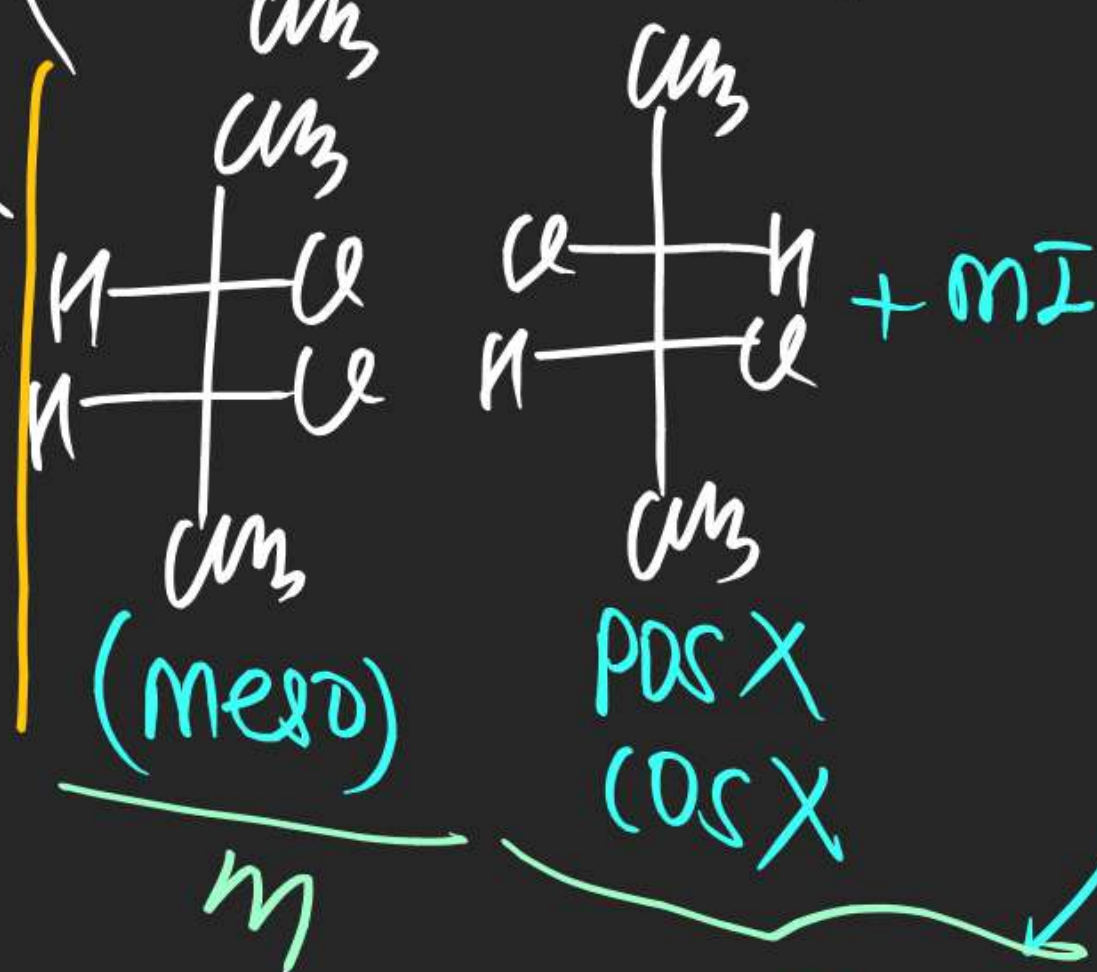
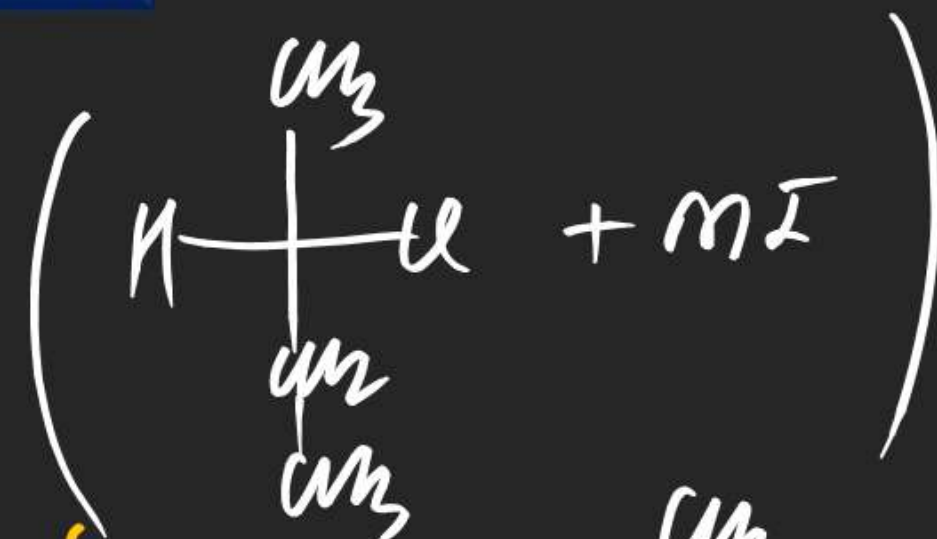
$$(n=1) \begin{cases} a = 2^1 = 2 \\ m = 0 \\ \text{EP} = 1 \\ T = 2 \end{cases}$$

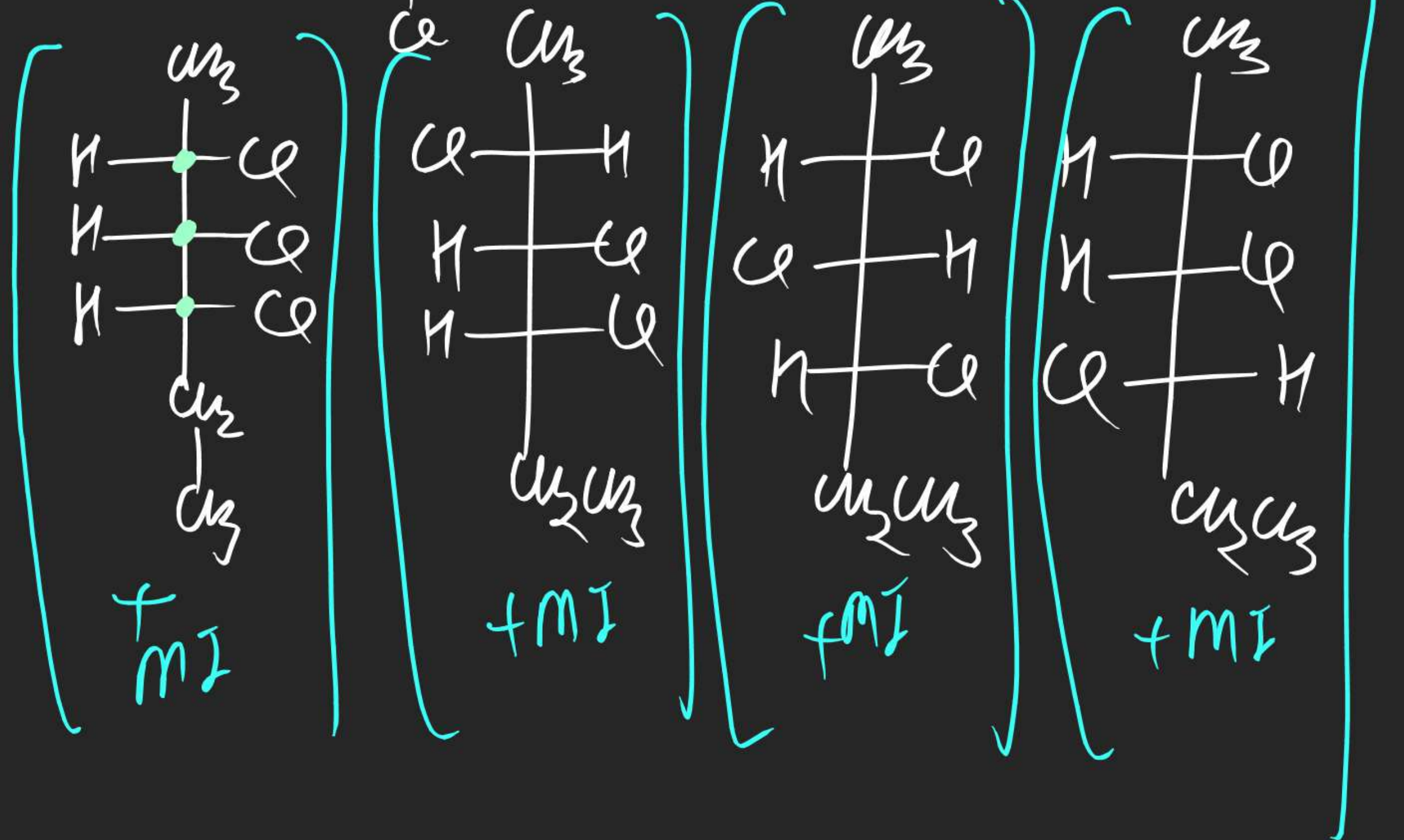
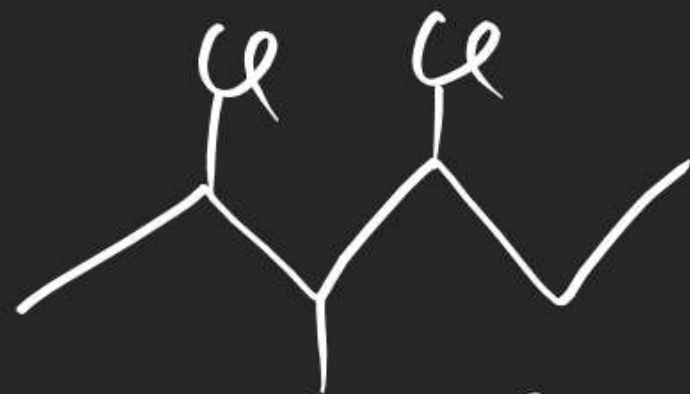


$$(n=2) \begin{cases} a = 2^{2-1} = 2 \\ \underline{m} = 2^{1-1} = 1 \\ \text{EP} = 1 \\ T = 3 \end{cases}$$



$$(n=3) \begin{cases} a = 2^3 = 8 \\ m = 0 \\ \text{EP} = 4 \\ T = 8 \end{cases}$$

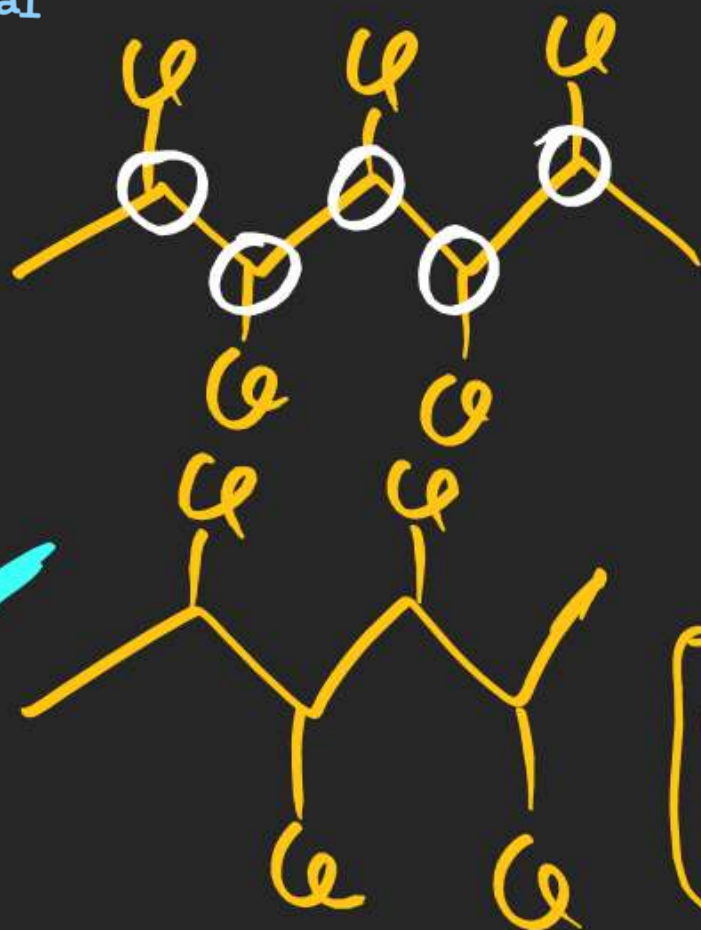


Soln (3)

$$= \left[\frac{n}{2} \right] \text{ CIF}$$

STEREISOMERISM

(4)



($n=5$)
Symmetrical

$$a = 2^{n-1} - 2^{\frac{n-1}{2}} = 2^{5-1} - 2^{\frac{5-1}{2}} = 2^4 - 2^2 = 12$$

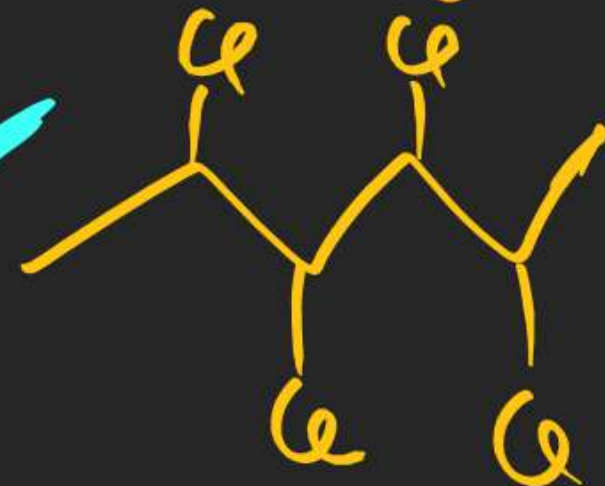
$$m = 4$$

$$EP = 6$$

($n=4$)

$$T = 16$$

(5)

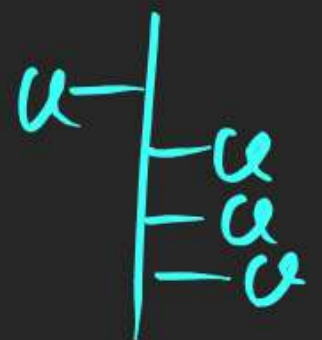


$$a = 8, m = 2$$

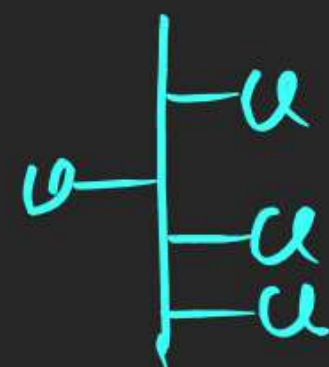
$$EP = 4, T = 10$$



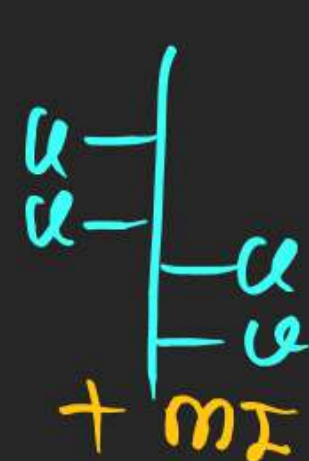
meso



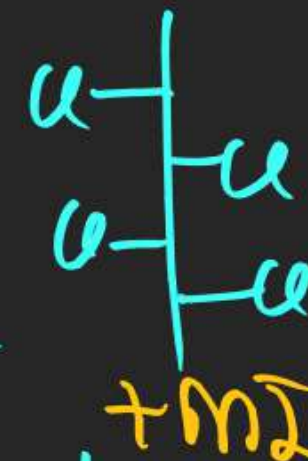
+ m̄



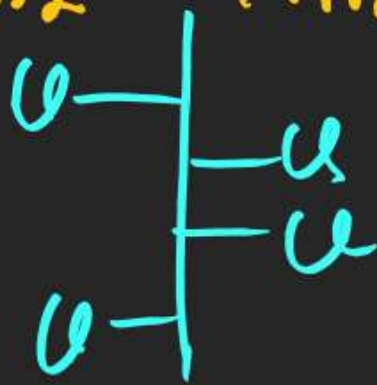
+ m̄



+ m̄

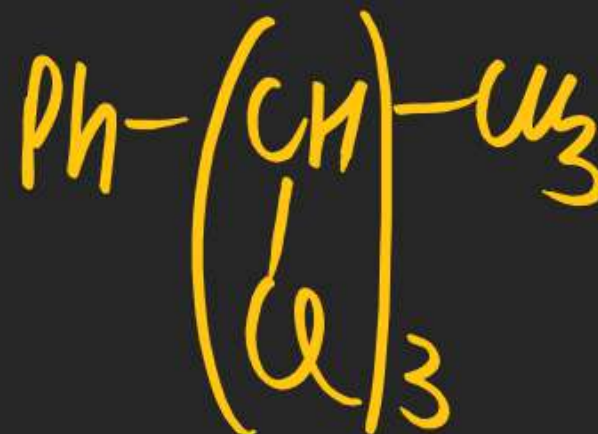


+ m̄



+ meso

(6)



($n=3$)

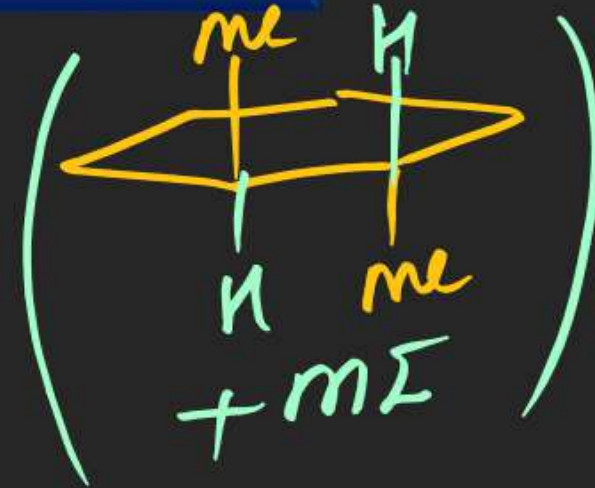
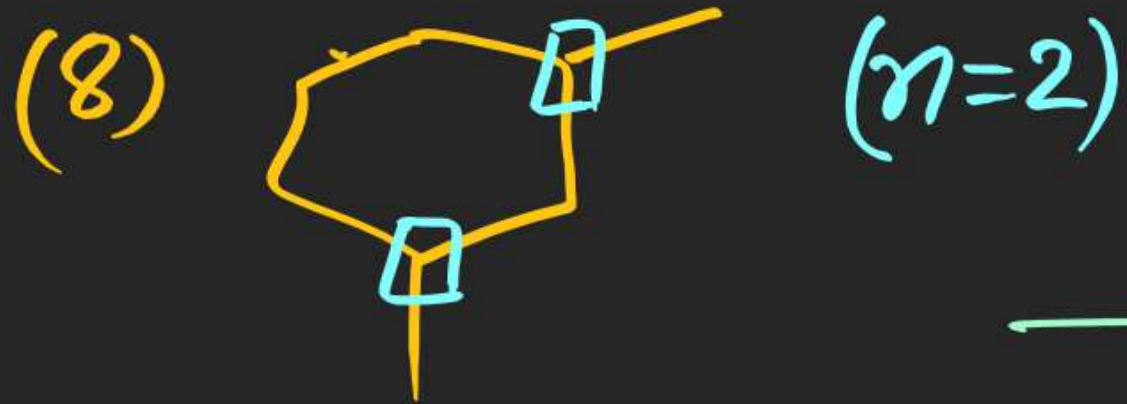
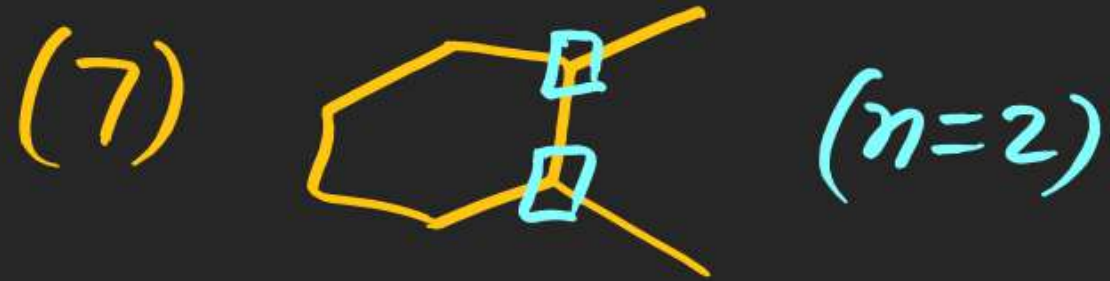
$$a = 2^3 = 8$$

$$m = 0$$

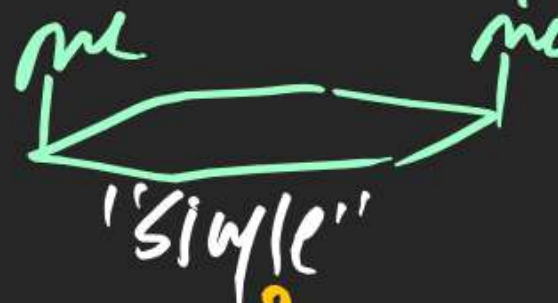
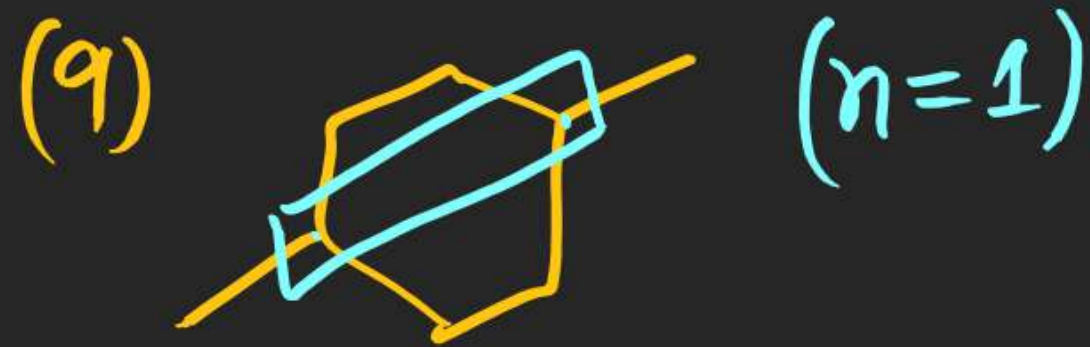
$$EP = 4$$

$$T = 8$$

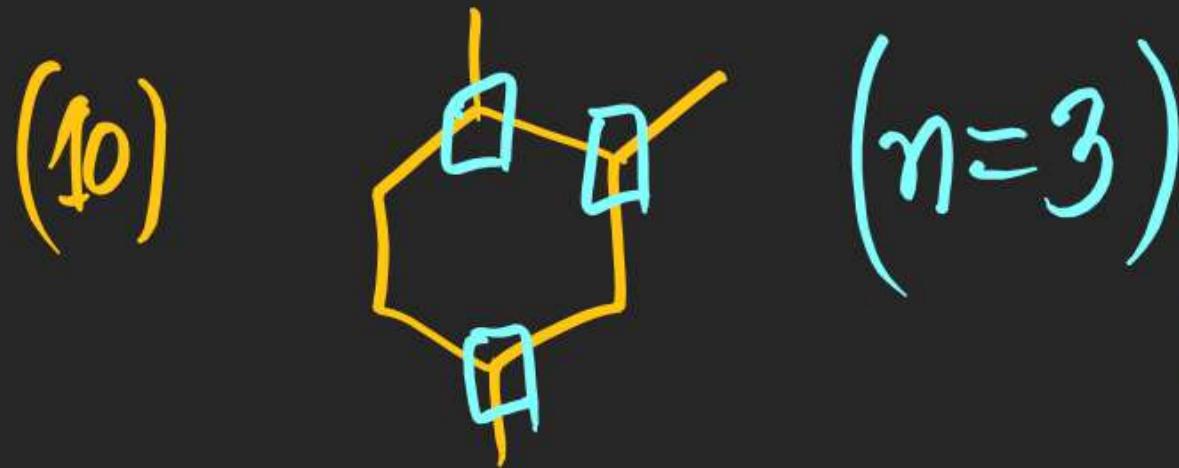
STEREISOMERISM



$$\begin{aligned} a &= 2 \\ m &= 1 \\ EP &= 1 \\ T &= 3 \end{aligned}$$

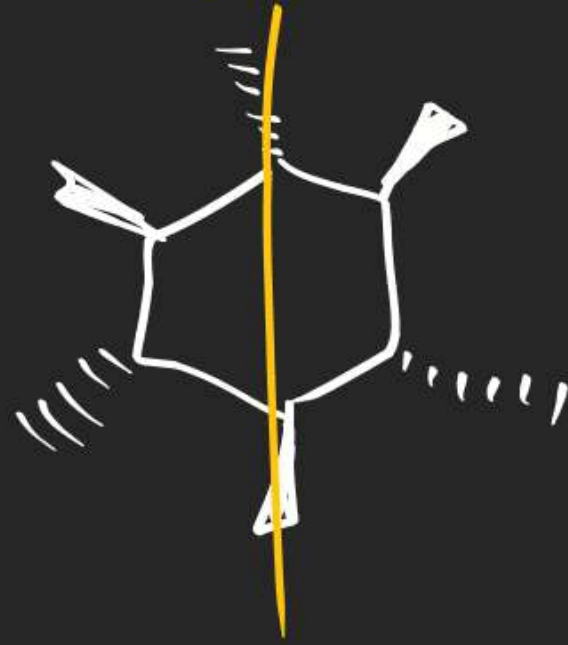
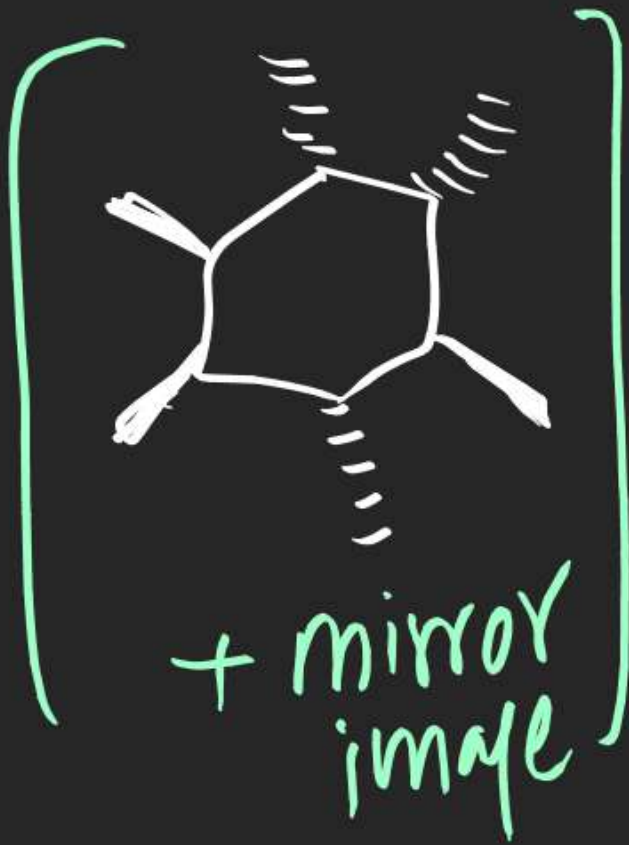
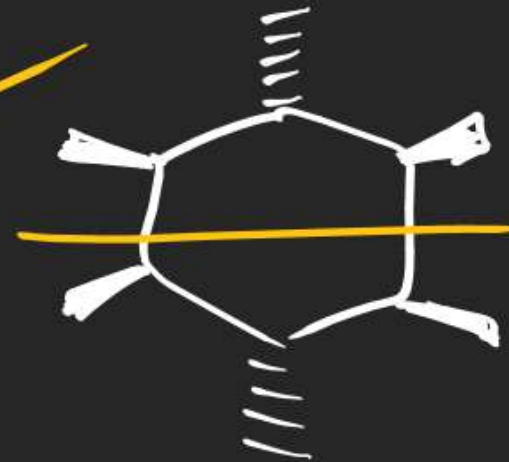
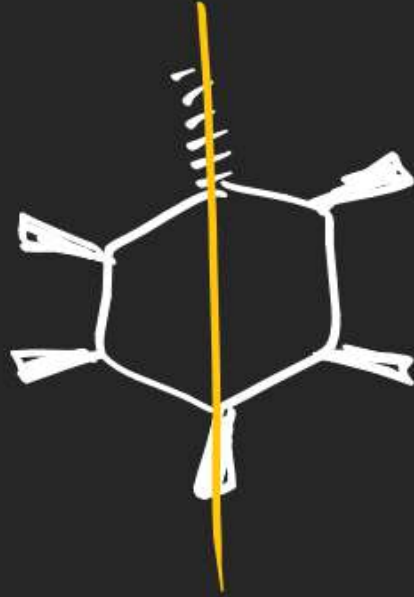
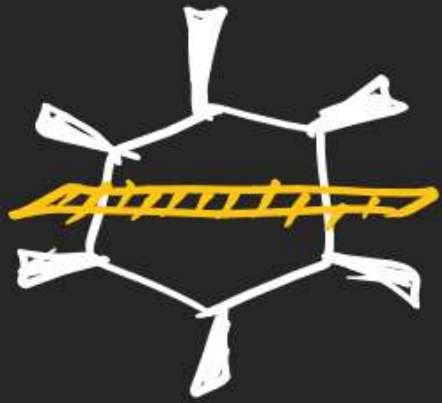
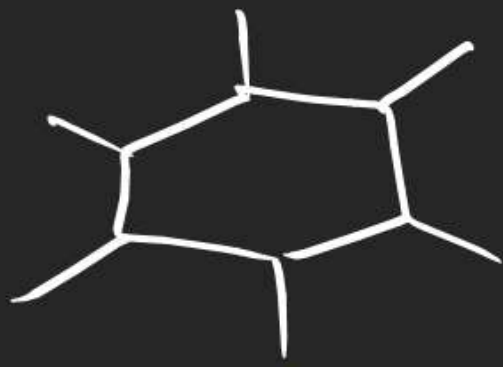


$$TSI = 2$$



$$\begin{cases} a = 2^3 = 8 \\ m = 0 \\ EP = 4 \\ T = 8 \end{cases}$$

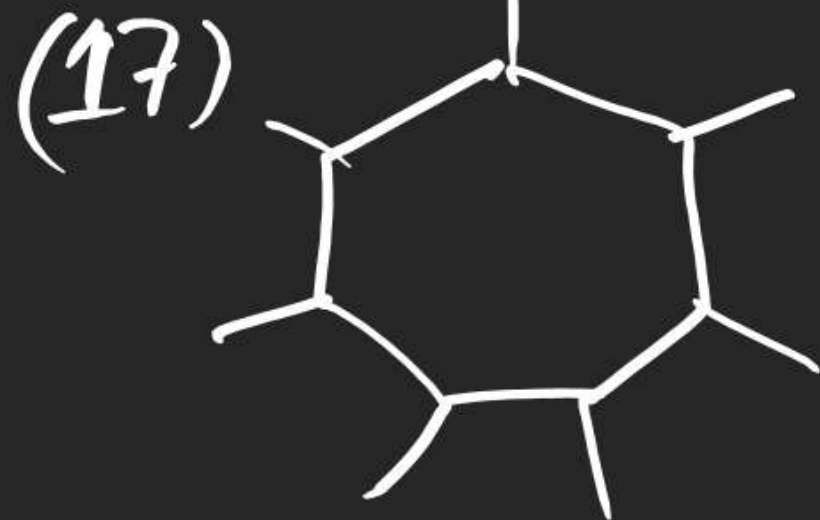
same like (7)



$$\begin{aligned} a &= 2 \\ m &= 7 \\ \epsilon_p &= 1 \\ T &= 9 \end{aligned}$$

$$\left(\frac{a}{2} \right) = a + m$$

STEREISOMERISM



All wedge

1 Dash

2 Dash

3 Dash

1 Case

1 Case

3 Case (1,2/1,3/1,4)

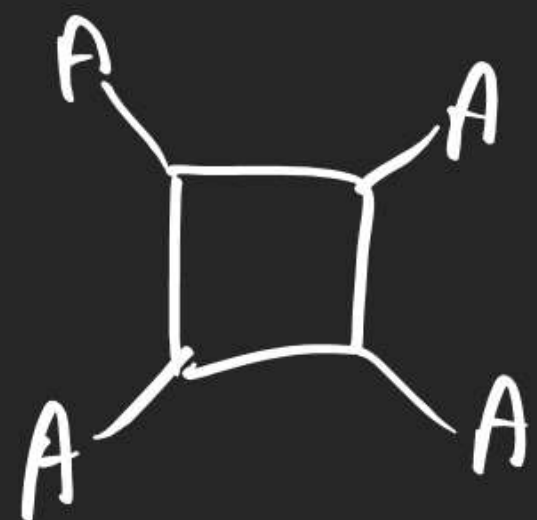
4 Case (1,2,3/1,2,4/1,2,5/1,3,5/

+mI

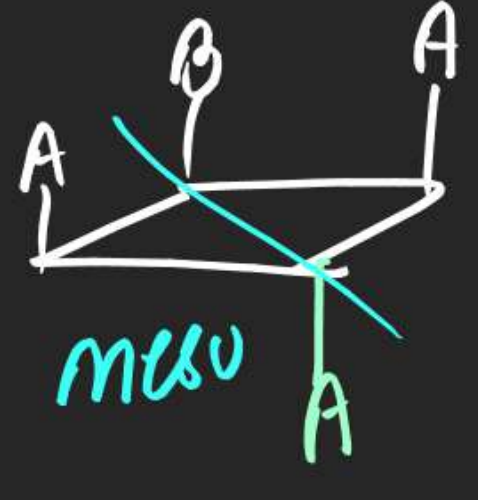
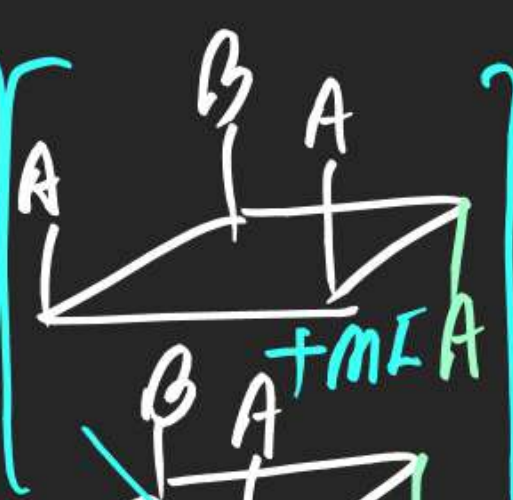
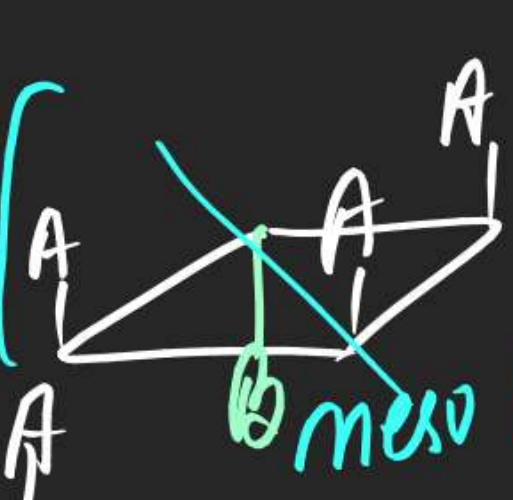
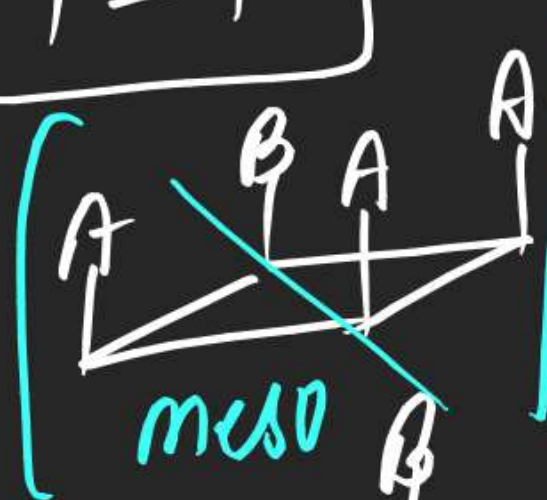
a=2
m=8
CP=1

T=10

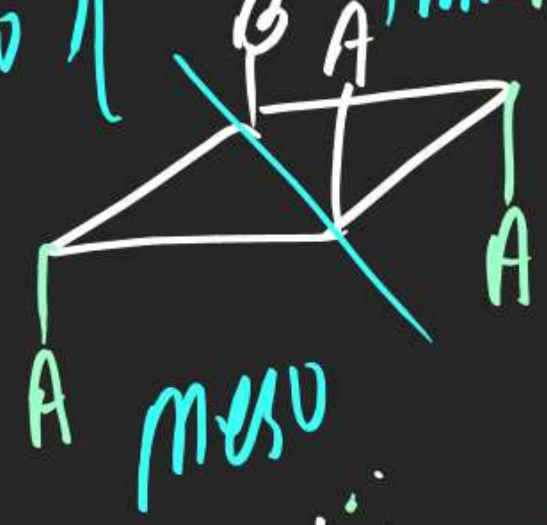
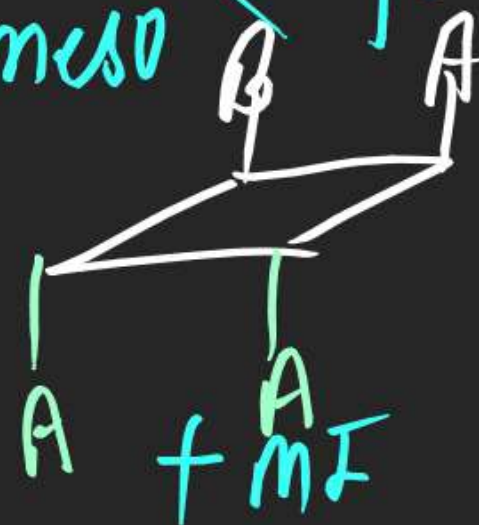
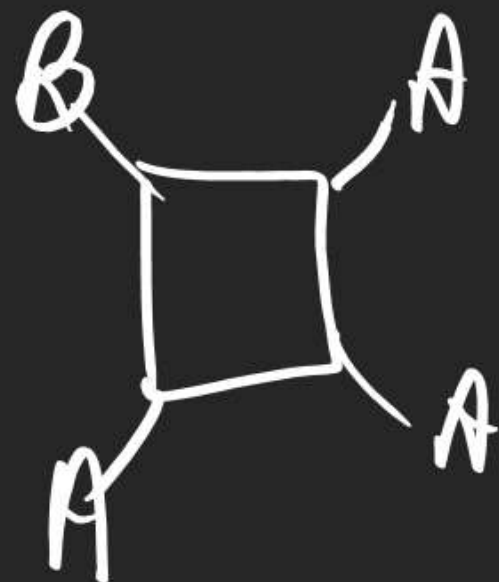
(18)



T=4



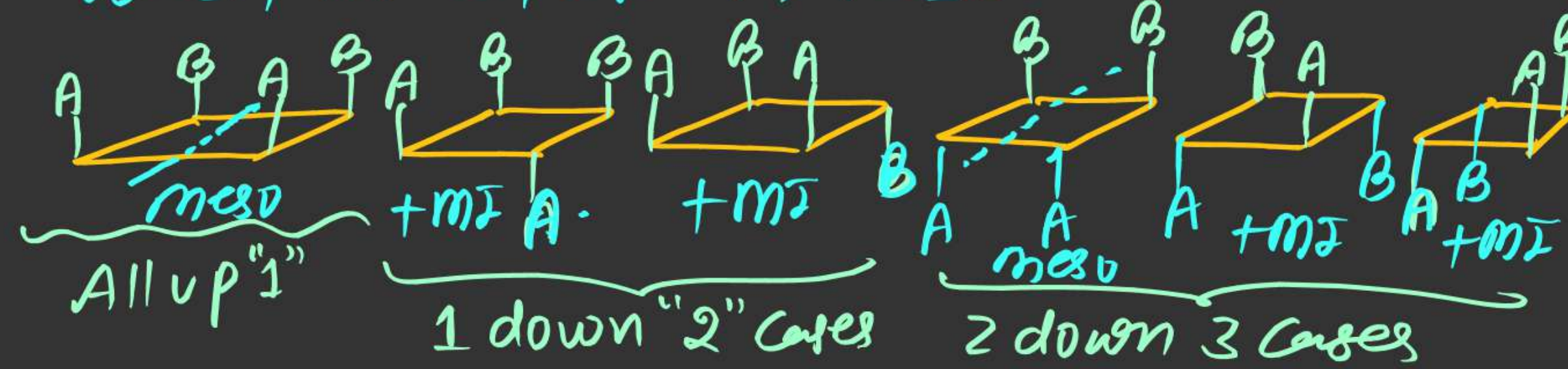
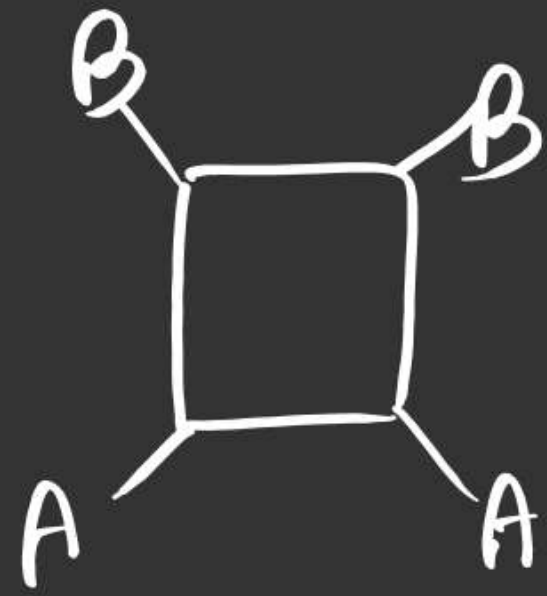
(19)



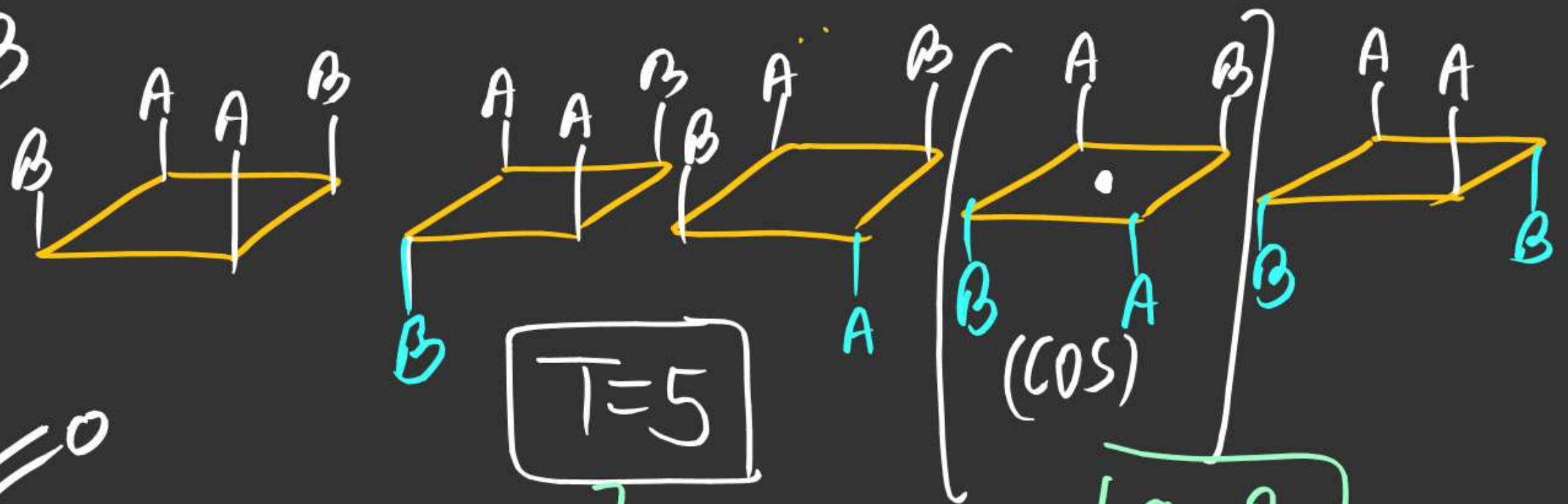
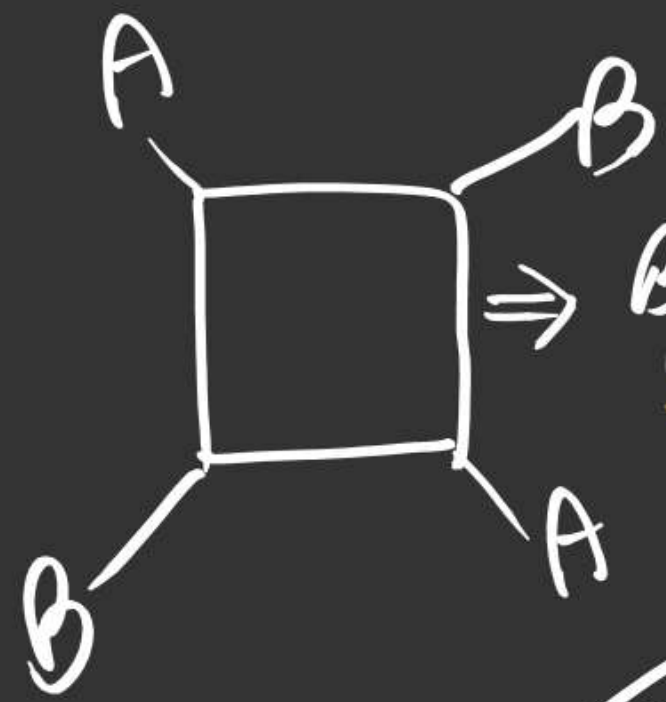
a=4
m=4
CP=2
T=8

$$a=8, m=2, ep=4, T=10$$

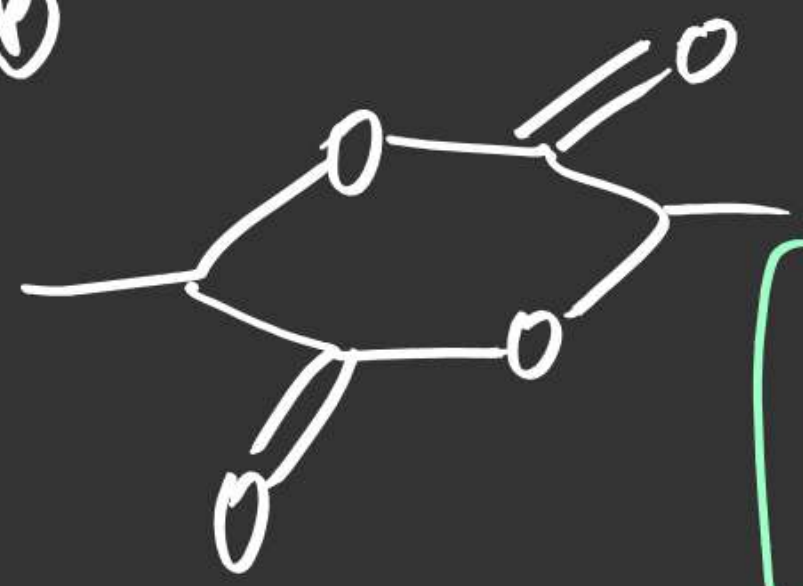
(20)



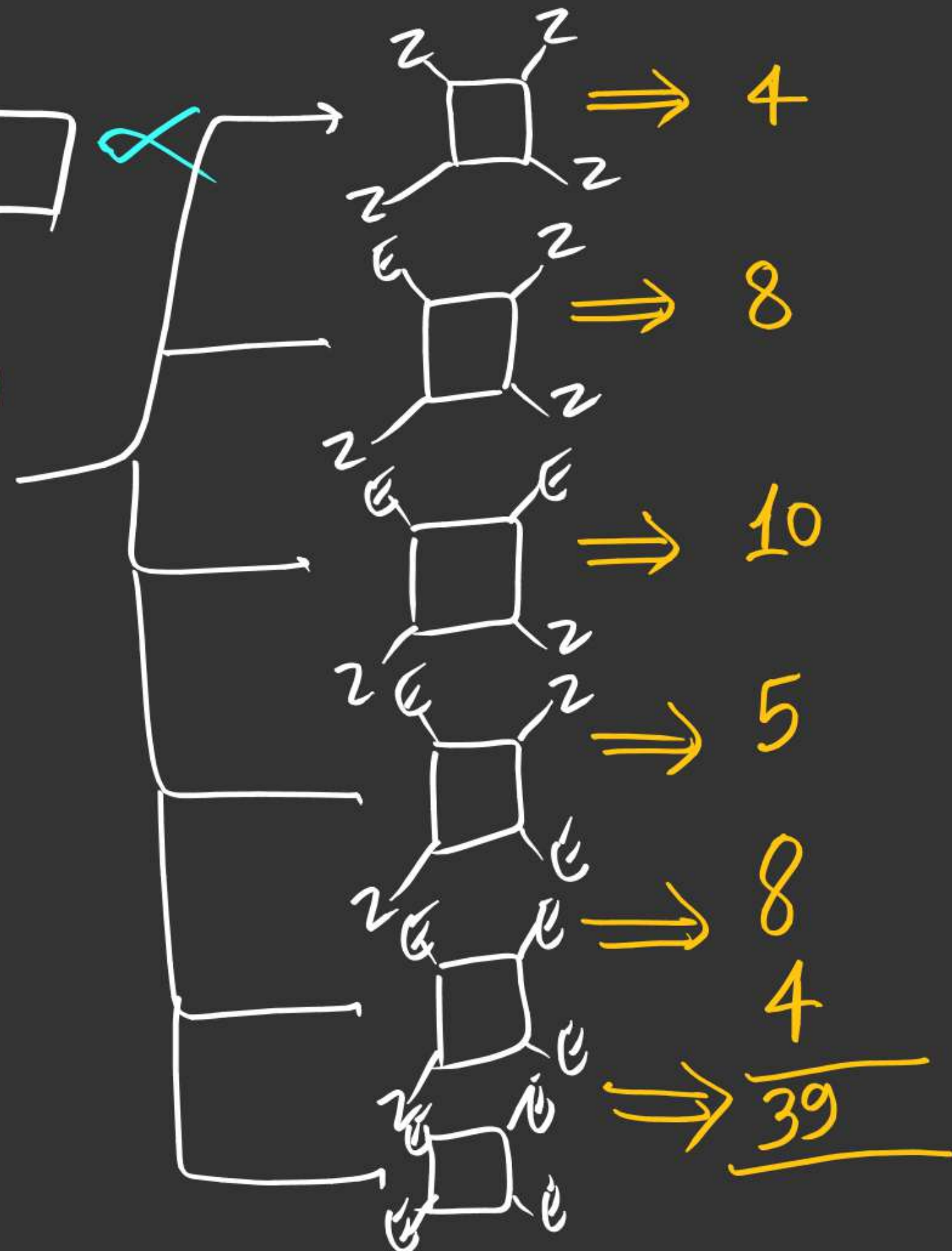
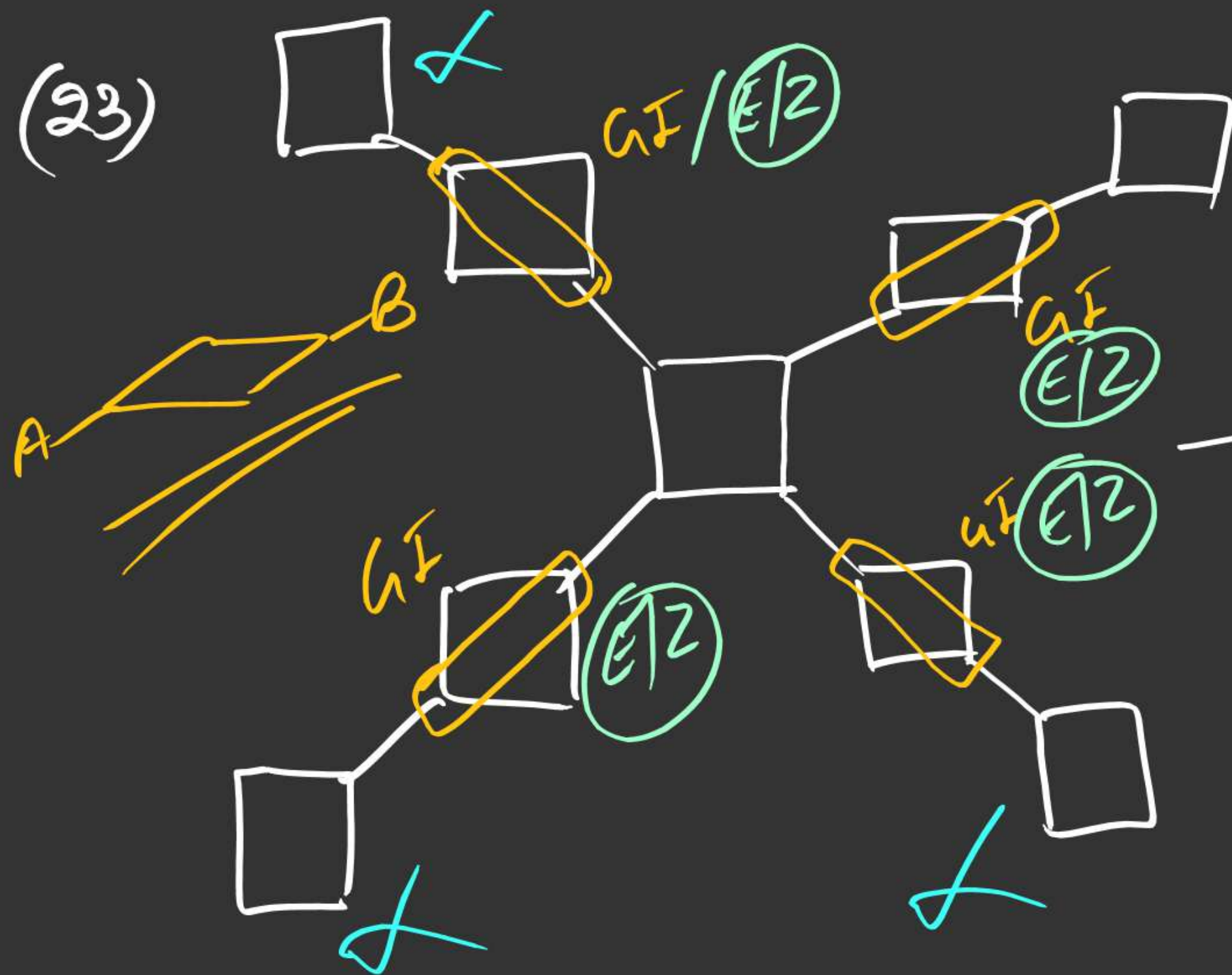
(21)



(22)

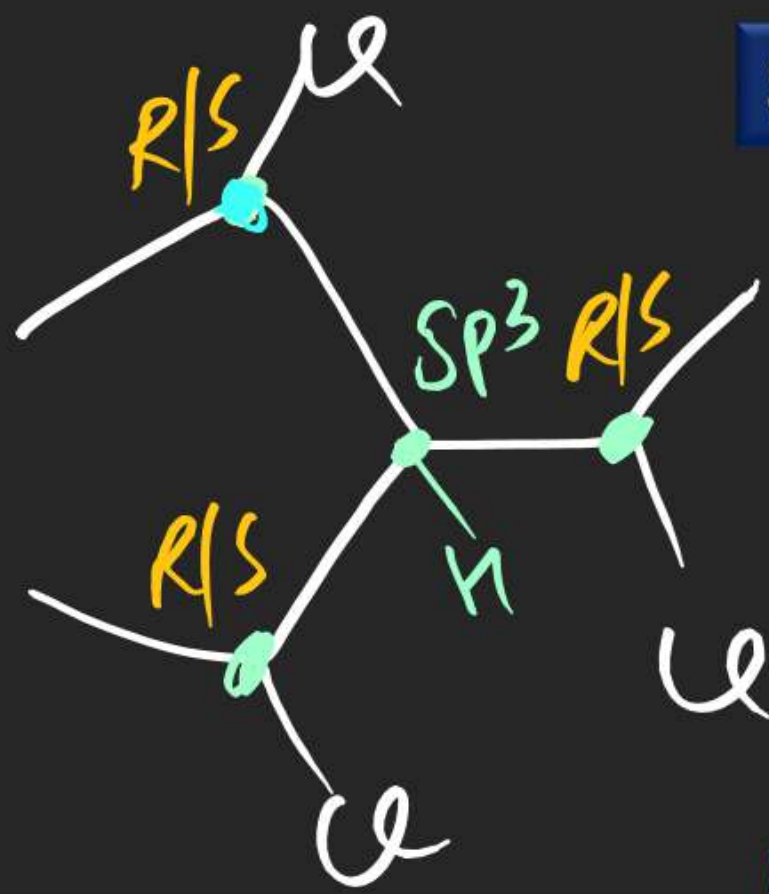


$$a=2, m=1, ep=1, T=3$$

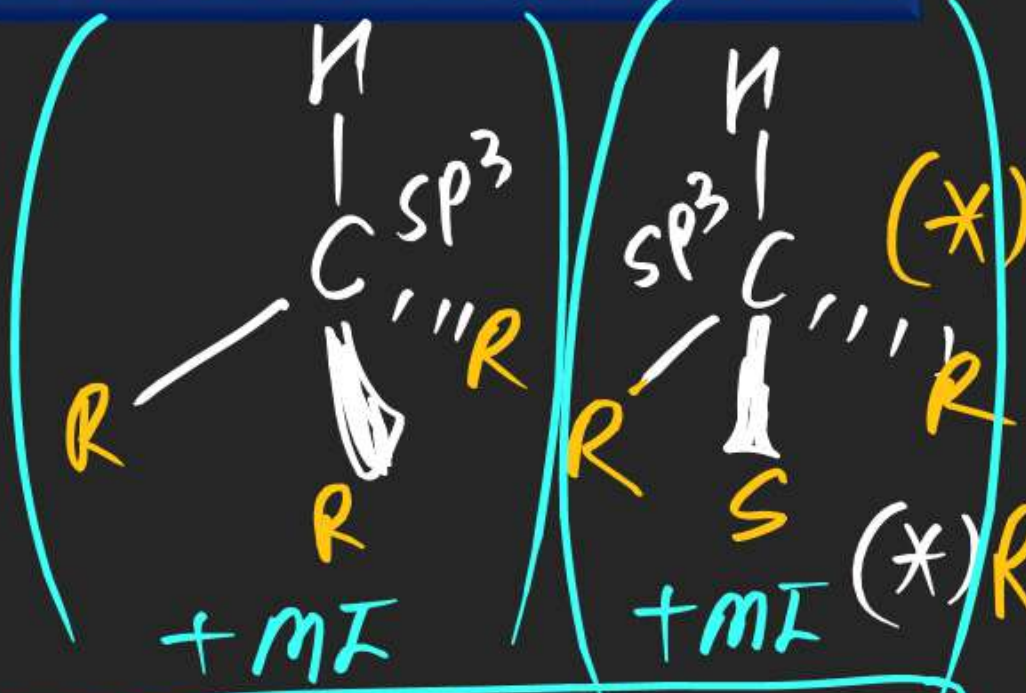
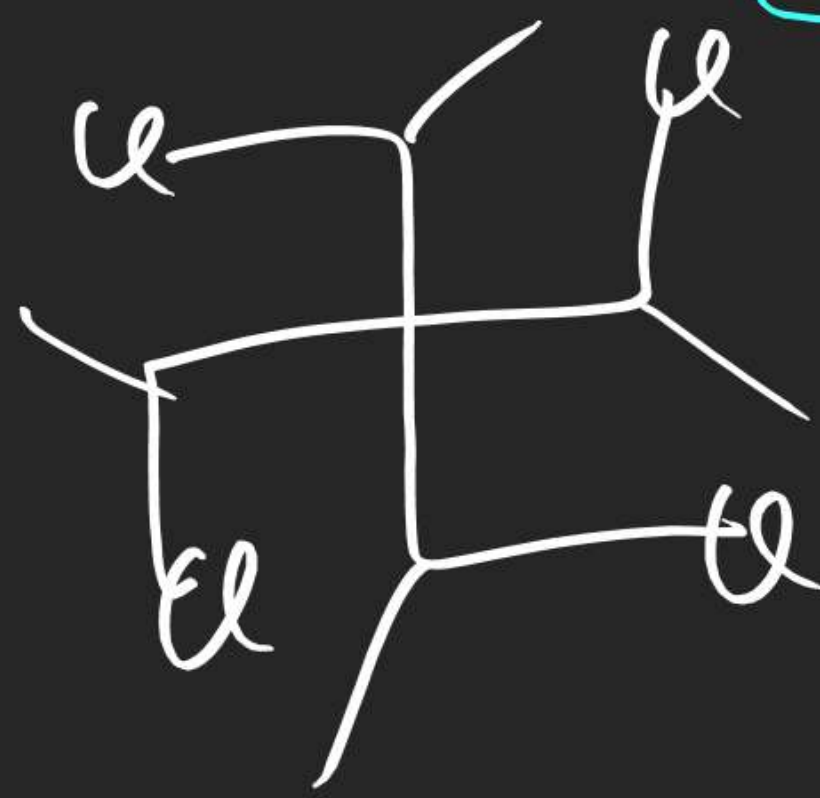


STEREISOMERISM

(27)



(28)



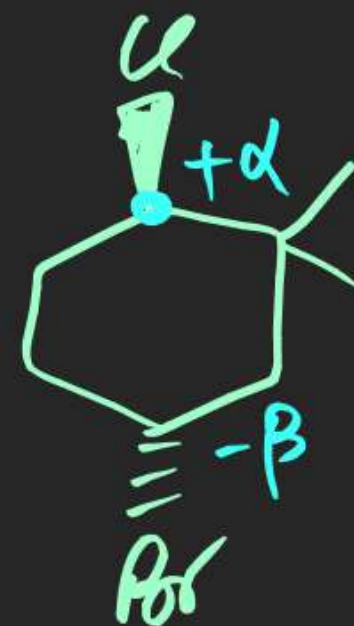
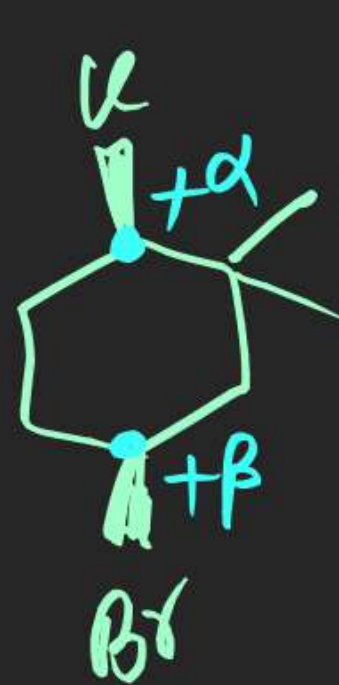
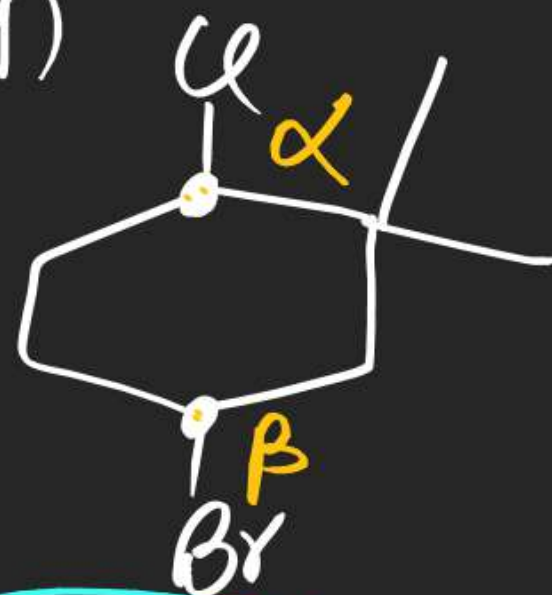
$a=4, m=0, EP=2, T=4$

(*) R की mirror image "S" होती है

(*) R/S के Thorough PDS नहीं
 साम सामने व्योमि
 चiral Centre पर होता है

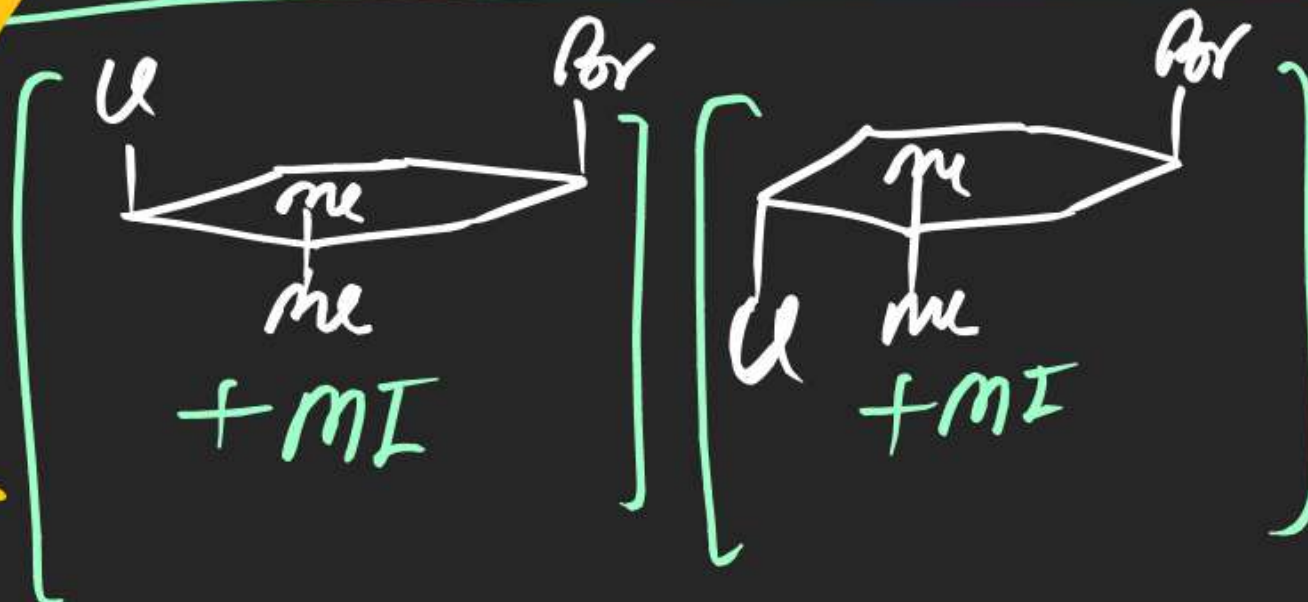
(29)

$$CC=2$$



$$\begin{aligned} a &= 4 \\ m &= 0 \\ \text{EP} &= 2 \\ T &= 4 \end{aligned}$$

$+\alpha$	$+\alpha$	$-\alpha$	$-\alpha$
$+\beta$	$-\beta$	$+\beta$	$-\beta$
$\alpha+\beta$	$+\alpha-\beta$	$-\alpha+\beta$	$-\alpha-\beta$

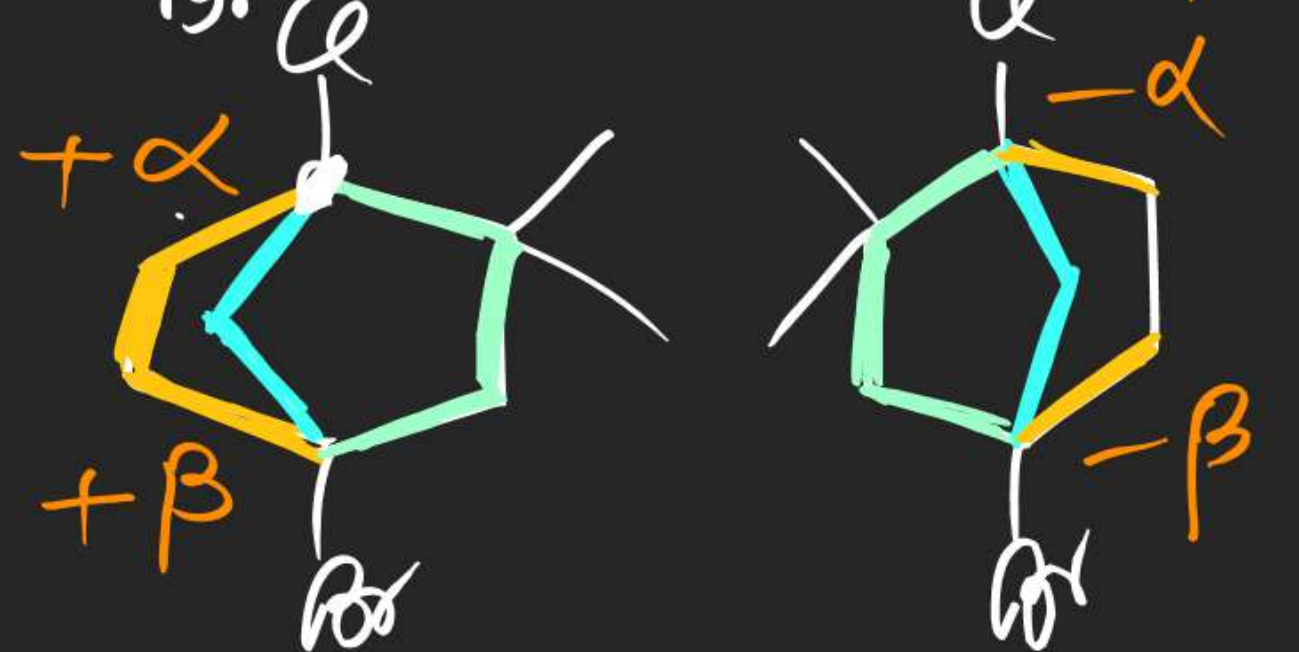


$$\begin{aligned} a &= 4 \\ m &= 0 \\ \text{EP} &= 2 \\ T &= 4 \end{aligned}$$

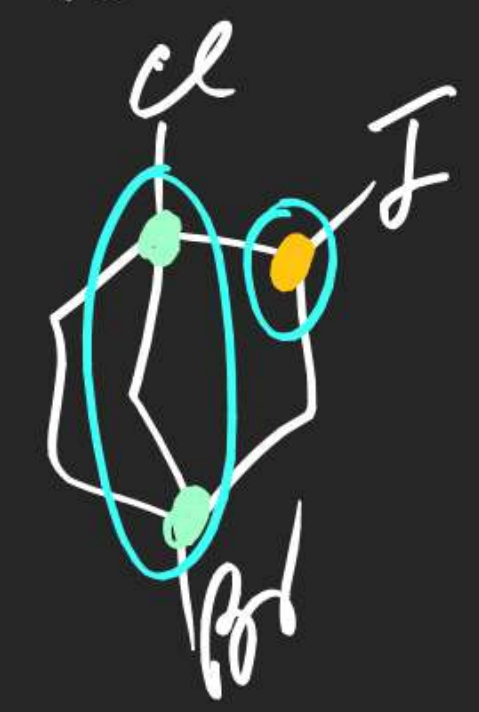
$$\begin{aligned} T &= 4 \\ a &= 2 \\ m &= 0 \\ \text{EP} &= 2 \end{aligned}$$

$$a=2^2=4, m=0, \text{EP}=2, T=4$$

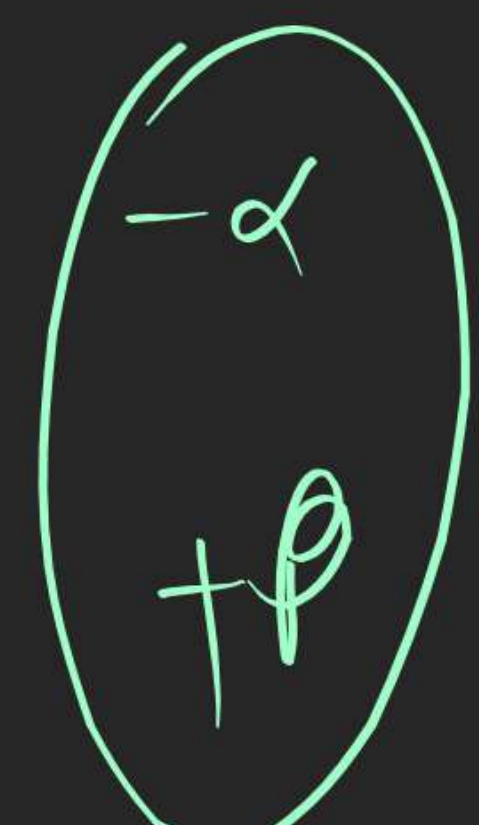
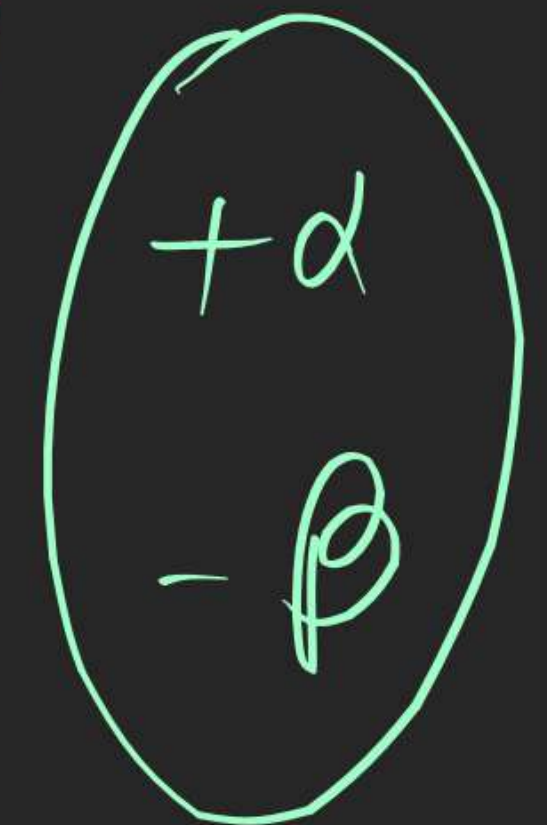
(30)



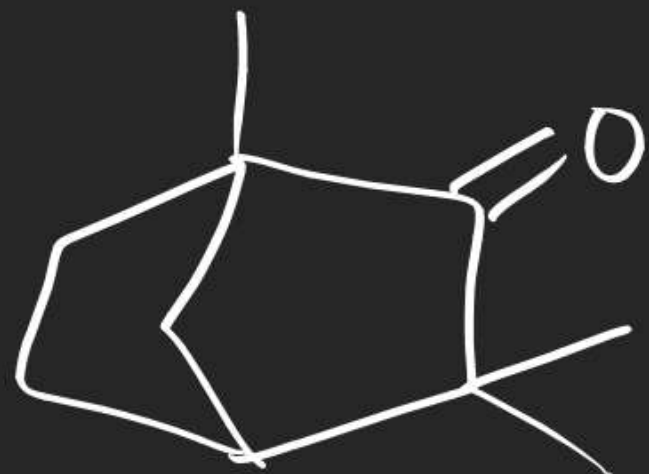
(31)



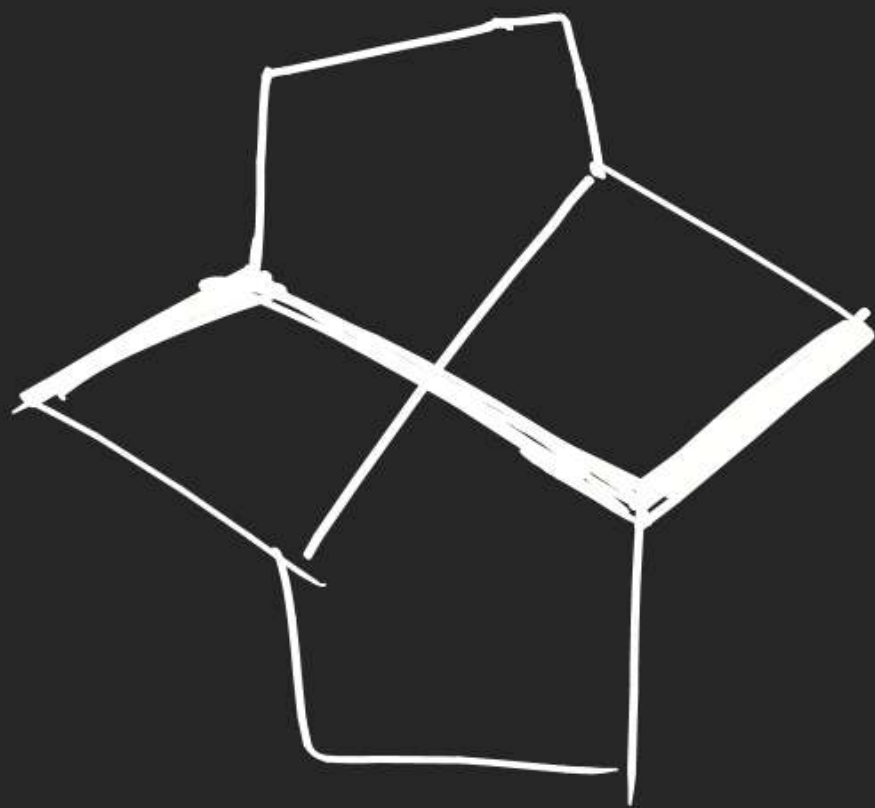
$CC=3$
 $TSI=2^2$
 $=4$



(32)



(33)



(34)

