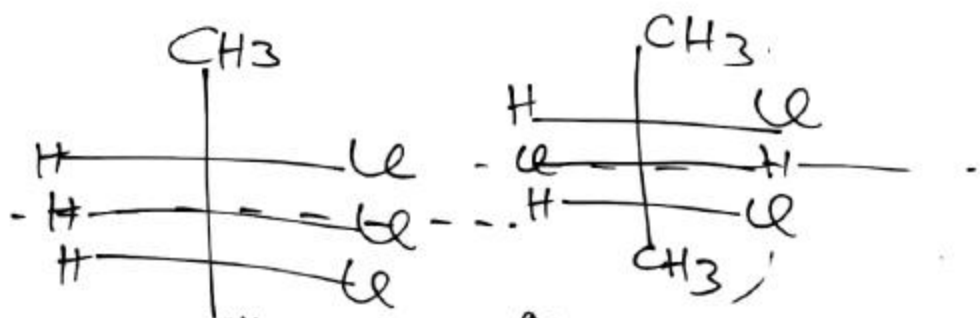
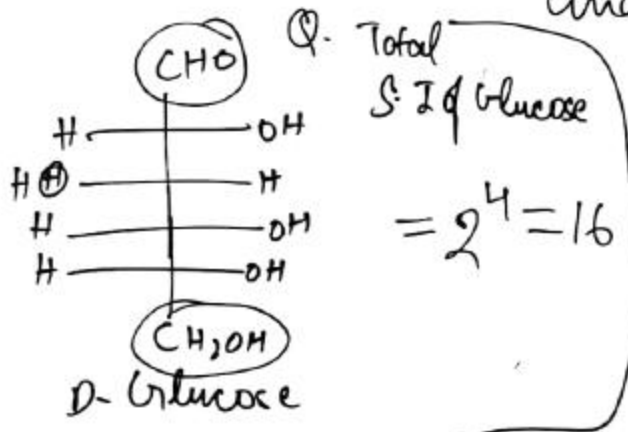


Case III

When one stereoisomer is symmetrical and compound has odd no. of chiral centres.



optically active  
 $a = 2^{n-1} - 2^{\frac{n-1}{2}}$

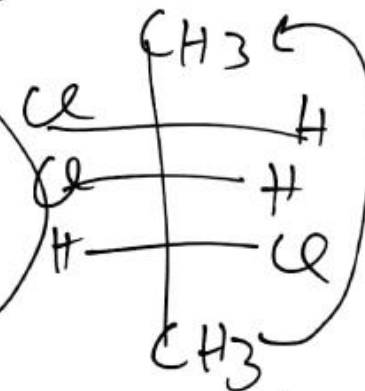
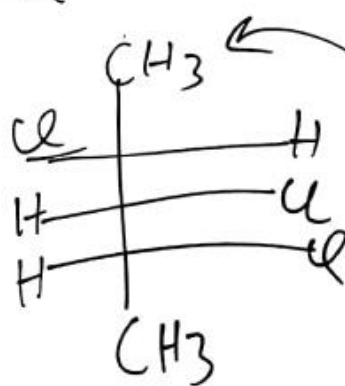
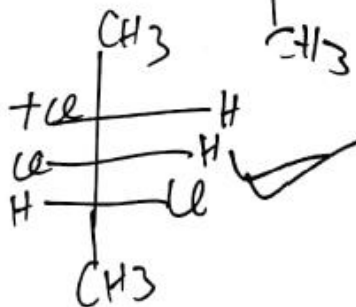
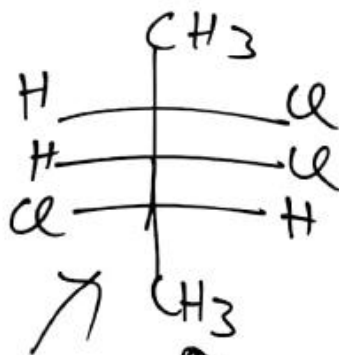
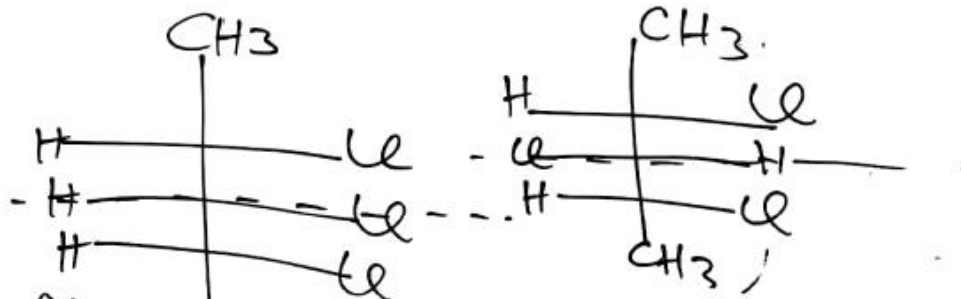
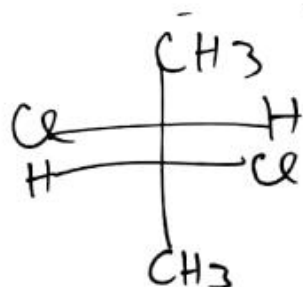
Total = 4  
 $m = 2^{\frac{n-1}{2}}$   
 $= 2^1$   
 $= 2$

$a = 2^{3-1} - 2^{\frac{3-1}{2}}$   
 $= 2^2 - 2^1 = 2$

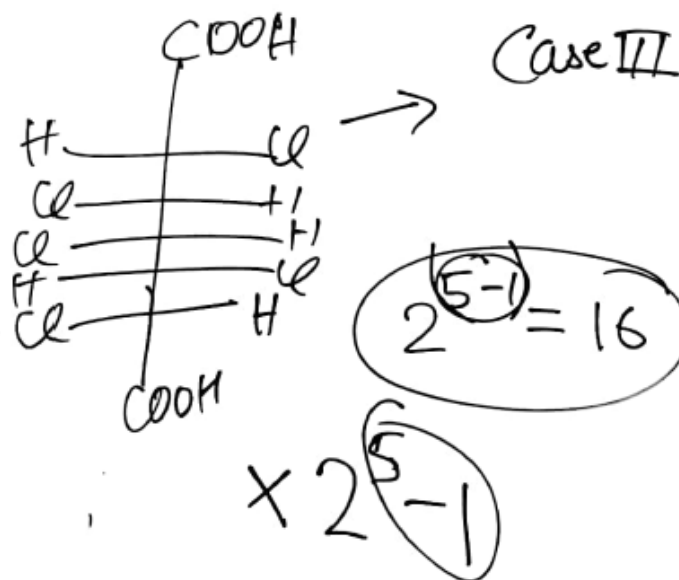
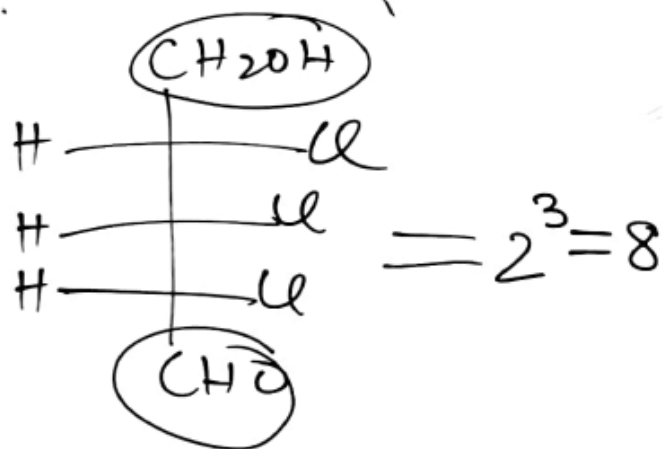
Meso =  $m = 2^{\frac{n-1}{2}}$   
 Total =  $2^{n-1}$

Case III

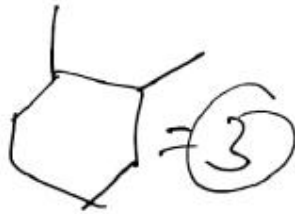
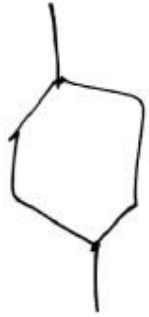
When one stereoisomer is symmetrical  
and compound has odd no. of chiral centre.



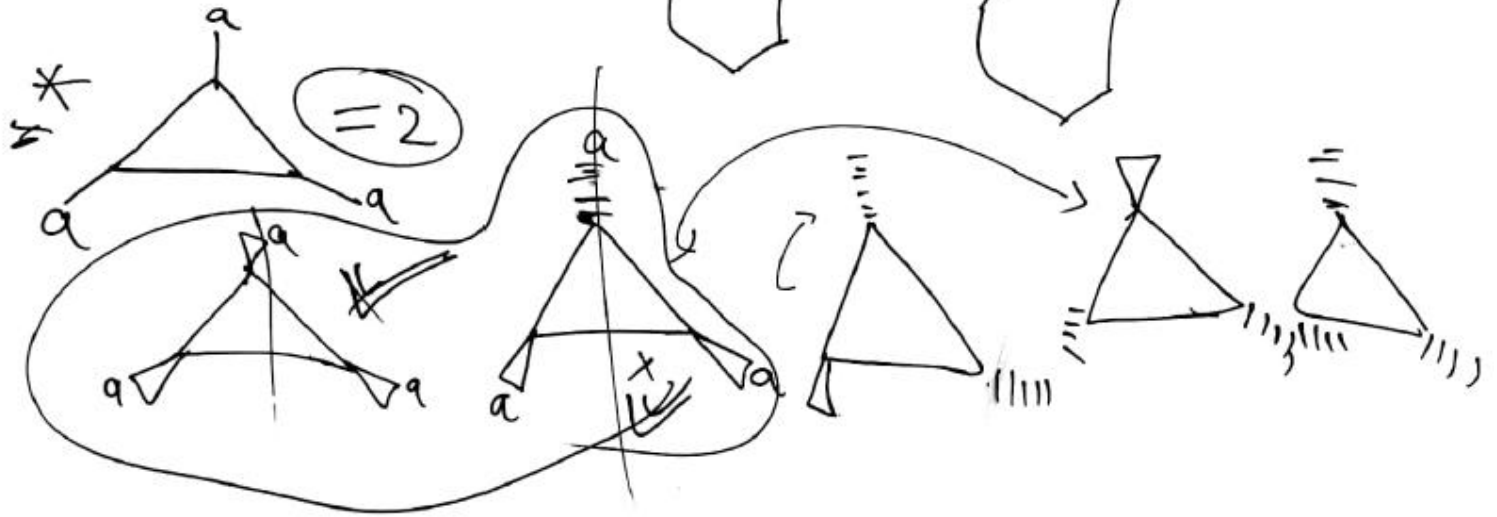
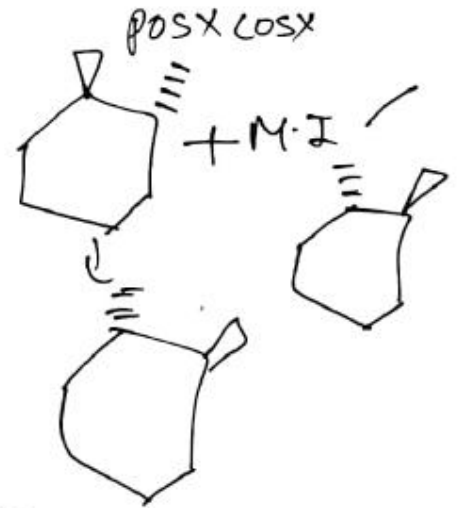
Case III When one stereoisomer is symmetrical  
 and compound has odd no. of chiral centre.



Q- Total S. 2



JEE mains



Case II

When one stereoisomer is symmetrical and compound has even no. of chiral centre.

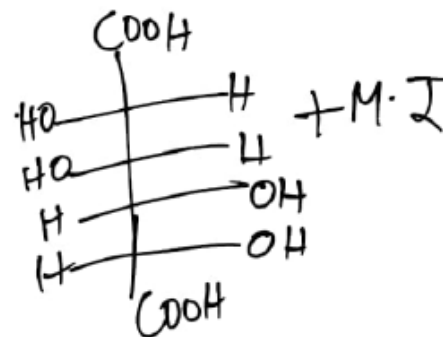
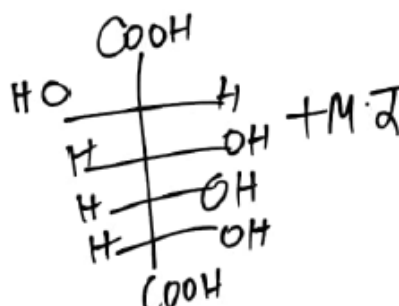
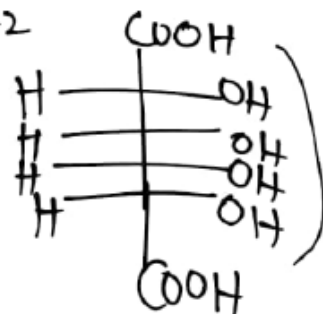
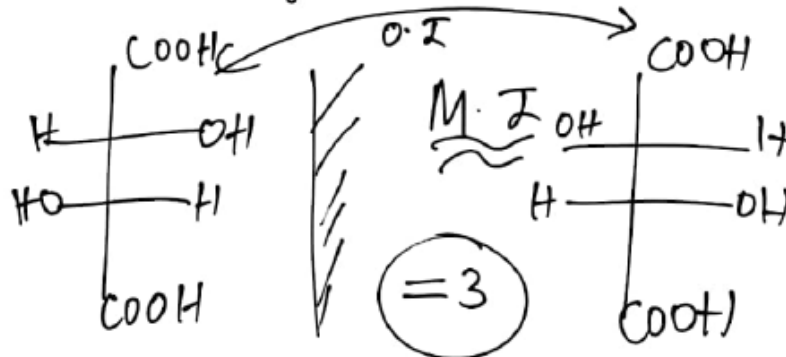
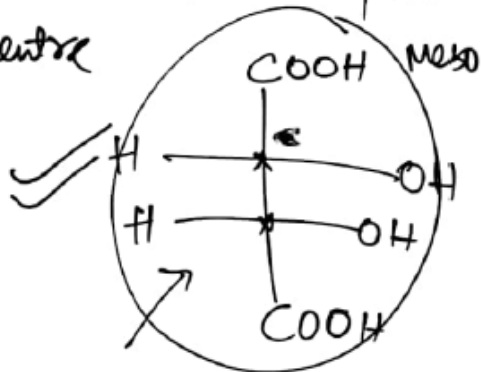
$n = \text{even}$   $\swarrow$  no of chiral centre

$a = 2^{n-1}$

$m = 2^{n/2-1}$

Total =  $a + m$

For  $n=2$   
 $a = 2^{2-1} = 2$   
 $m = 2^{2/2-1} = 2^0 = 1$   
 Total = 3



~~Total~~  $a = 2^{4-1} = 8$   $m = 2^{4/2-1} = 2^1 = 2$   
 Total = 10

Total S.I

