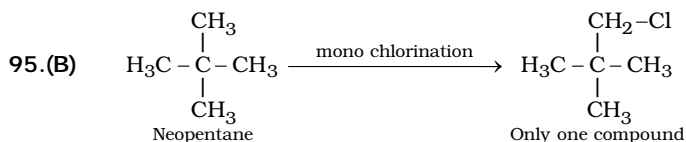
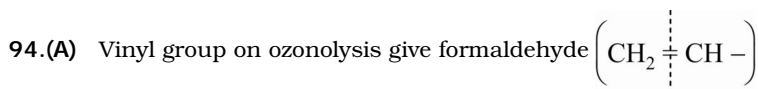


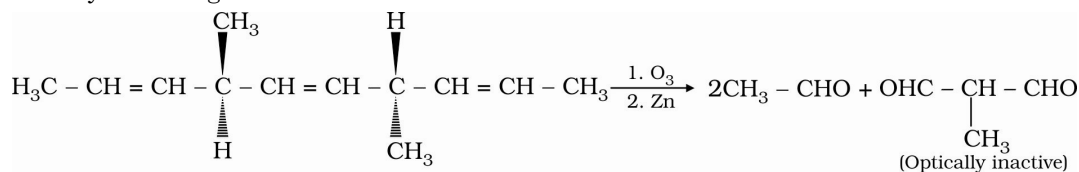
I has one chiral carbon = two stereo isomers

II has two chiral carbons and no symmetry = four stereo isomers

III and IV have no chiral carbon, no stereo isomers

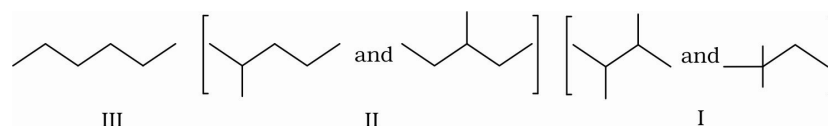


96.(A) Ozonolysis of the given triene occur as follows :



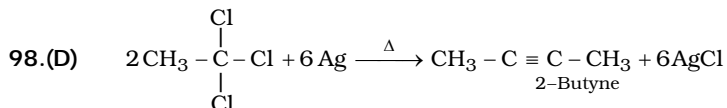
Since, none of the above dial is chiral, so no optically active product is obtained

97.(B) This problem is based on boiling point of isomeric alkanes. As we know more the branching in an alkane, lesser will be its surface area and lesser will be the boiling point.

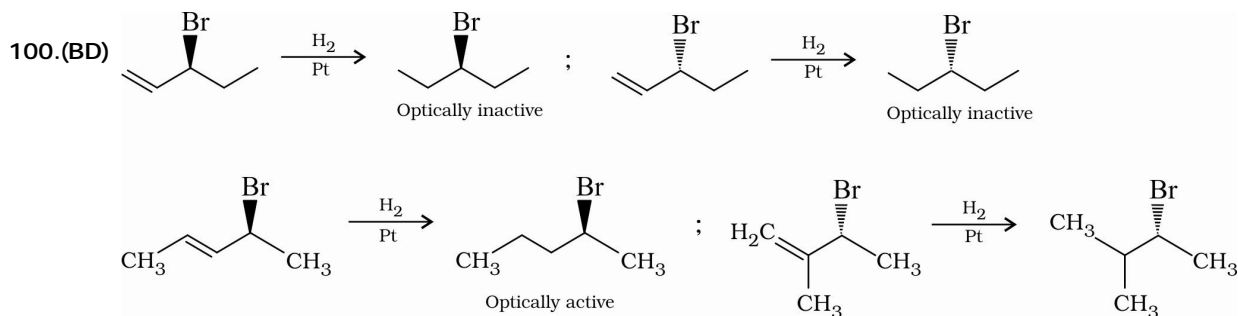


On moving left to right (III to I)

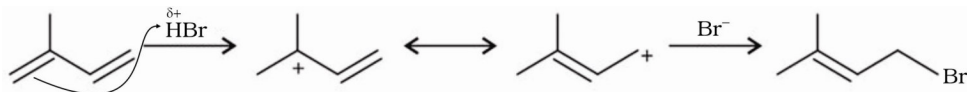
- branching increases
- surface area decreases
- boiling point decreases



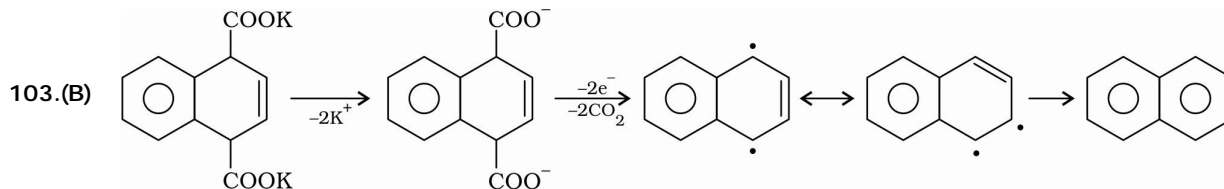
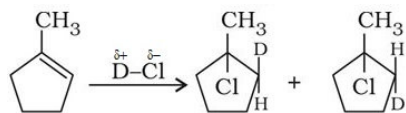
99.(ABC) It is due to steric effect of both t-butyl group and halogen i.e. iodine and bromine. Hydroxyl group is ortho and para directing.



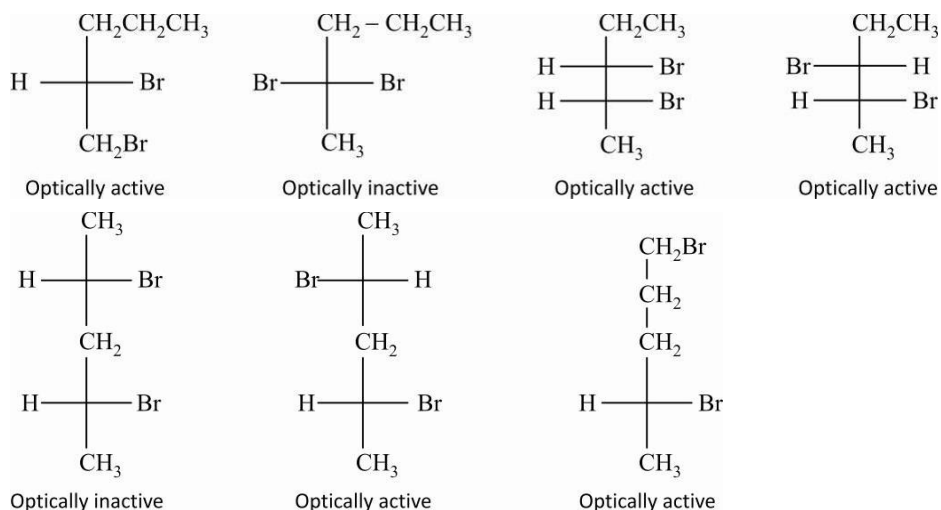
101.(D) It is 1, 4-addition of H-Br



102.(AB) According to Markovnikov's addition



104.(5) Total five products are formed.



105.(BCD)

