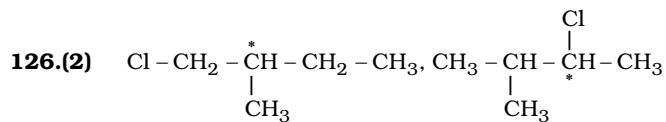
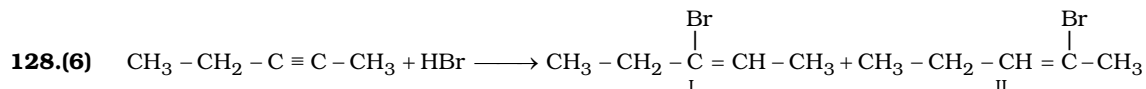
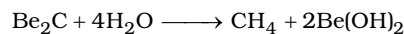
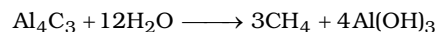


Numerical Value Type	DTS-11
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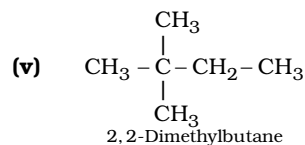
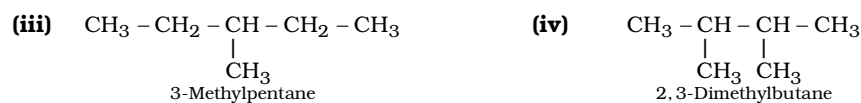
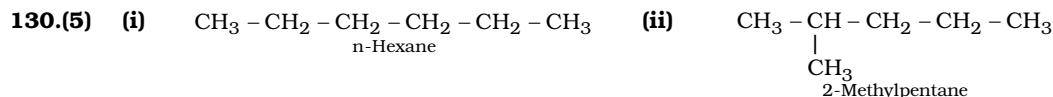
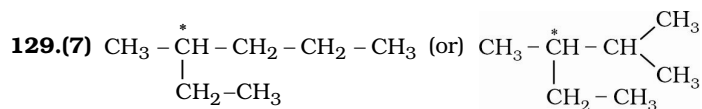


127.(2) Only  $\text{Al}_4\text{C}_3$  and  $\text{Be}_2\text{C}$  upon hydrolysis yield methane

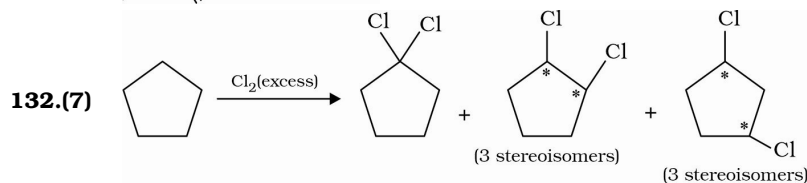
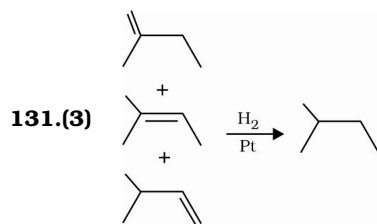


I and II are structural isomers. Both of these show geometrical isomerism, thus in all four configurational isomers are possible.

$$\Rightarrow x = 2 \text{ and } y = 4 \Rightarrow x + y = 6$$



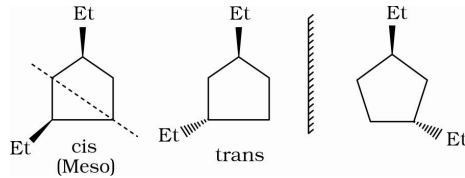
Total chain isomers = 5



Total 7 dichloro products are possible.

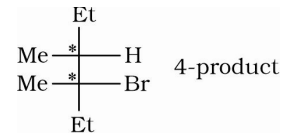
133.(2) Two products will be obtained by addition reaction above and below the plane of ring. It is the example of syn hydroxylation.

134.(3)

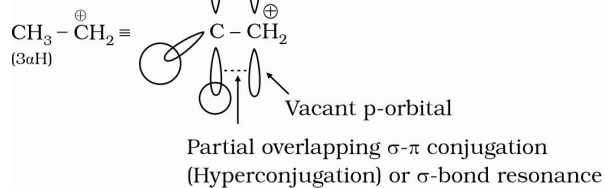


Total three stereoisomers

135.(4)

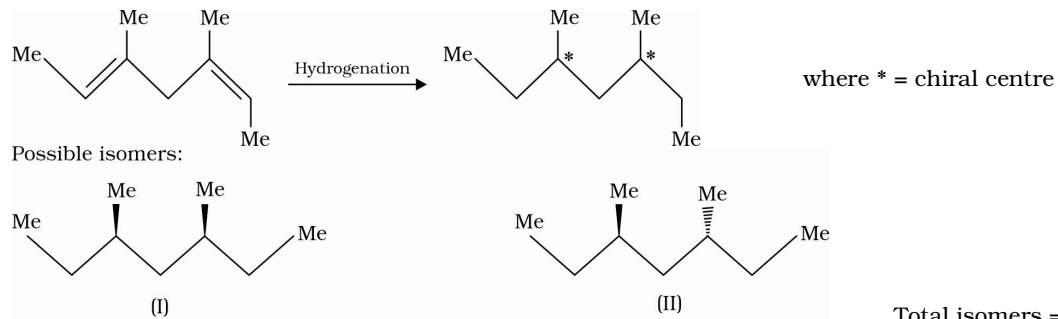


136.(3)

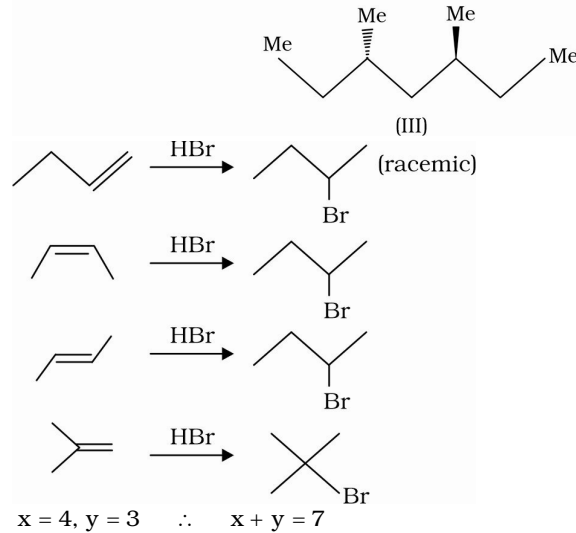


Here 3 carbon hydrogen bond orbital are available for overlap with adjacent vacant p-orbital

137.(3)



138.(7)



139.(9)

$$\text{Degree of unsaturation (or) Double bond equivalent} = (C + 1) - \left( \frac{H + X - N}{2} \right) \Rightarrow \text{D.B.E.} = 7$$

140.(3)

