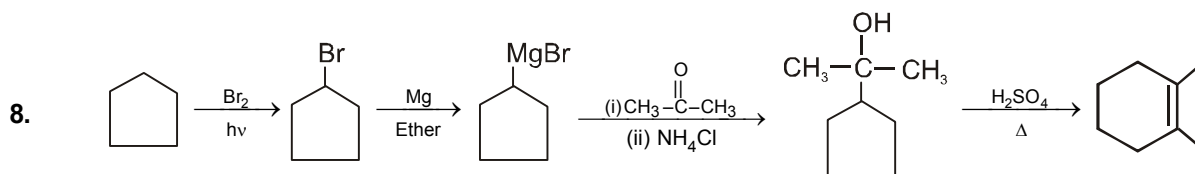
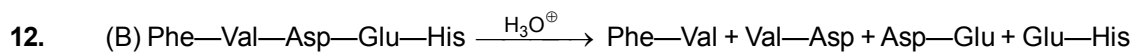


CHEMISTRY

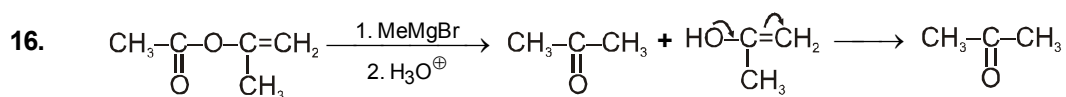
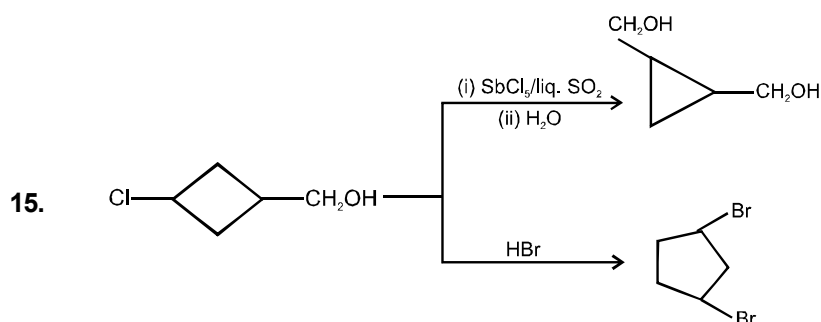
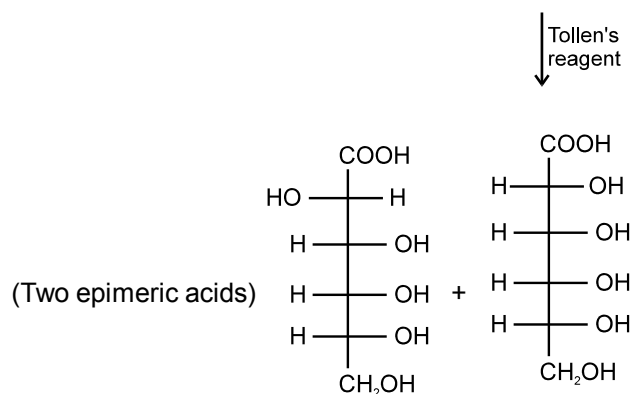
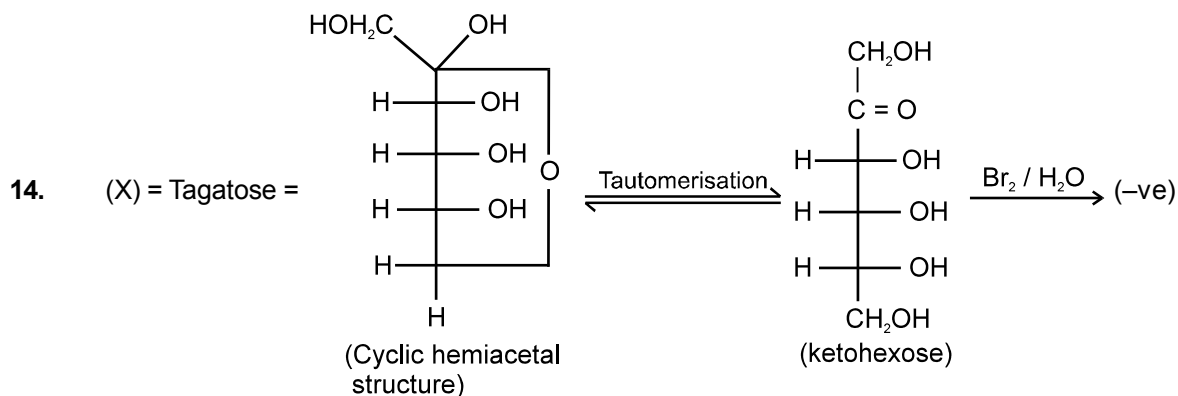
-
2. $\text{CH}_3\text{--CH}_2\text{Cl} \xrightarrow[\text{(ii) LiAlH}_4]{\text{(i) KCN}} \text{CH}_3\text{CH}_2\text{CH}_2\text{NH}_2$; $\text{CH}_3\text{--CH}_2\text{Cl} \xrightarrow[\text{(ii) LiAlH}_4]{\text{(i) AgCN}} \text{CH}_3\text{CH}_2\text{--NH--CH}_3$
3.
4.
5.
6. Chlorination is less reactive so 2° chloroproduct is major as per calculation
Bromination is more selective so 3° bromo product is major.
7.

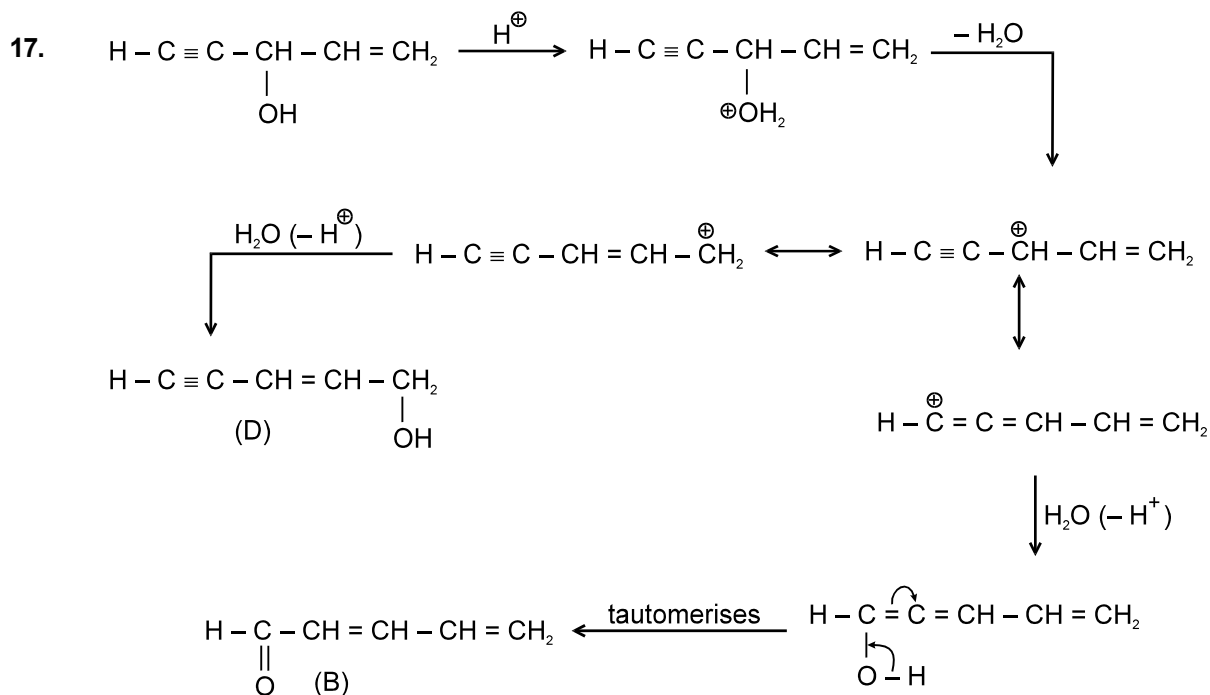


11. Sucrose has 8 -OH groups so forms octaacetate.

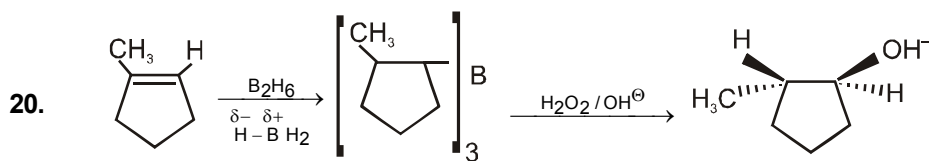
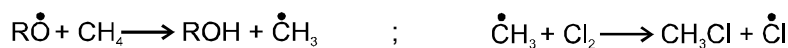


13. The compound is sucrose which on hydrolysis gives equimolar mixture of glucose and fructose.

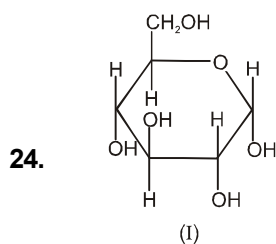
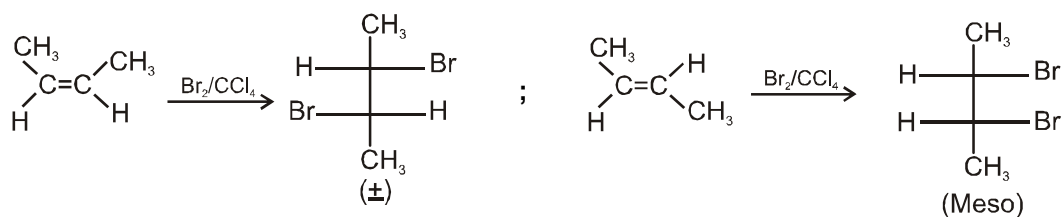
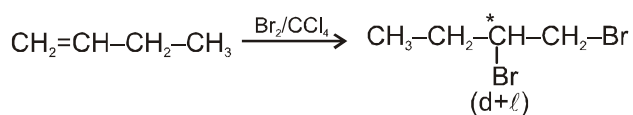
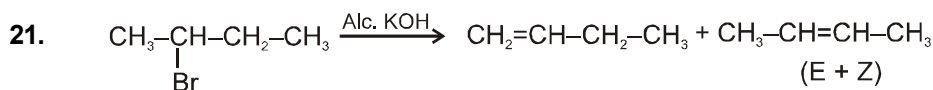




18. chain propagation steps are



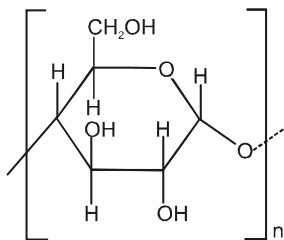
Stereospecific **syn** addition ; BH_3 act as electrophile



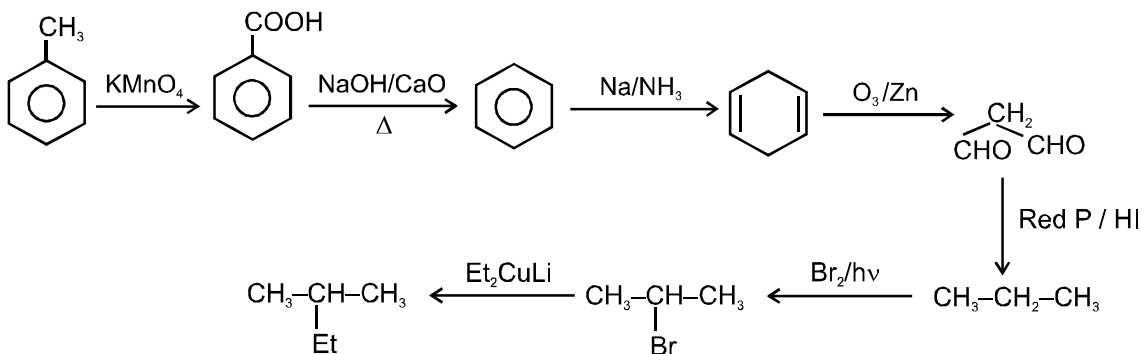
It has a hemiacetal structure



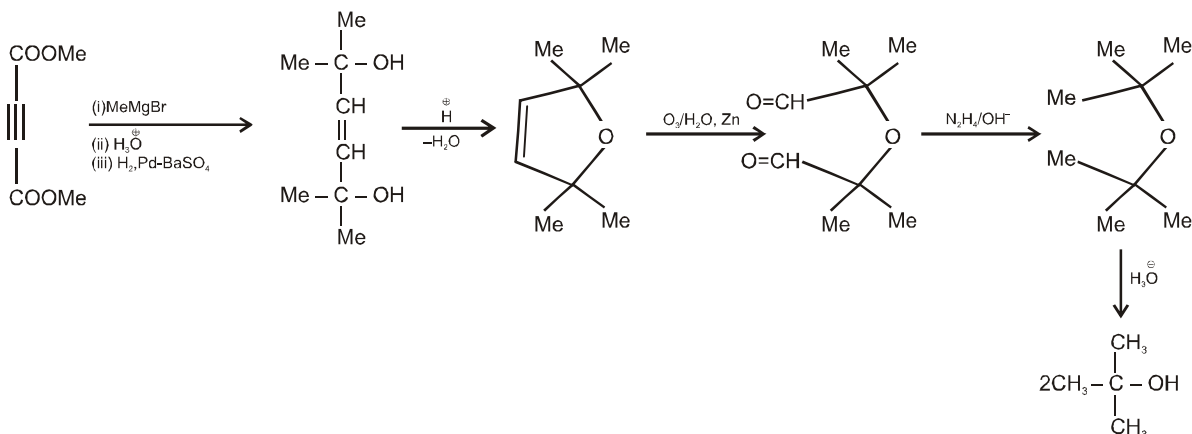
26.



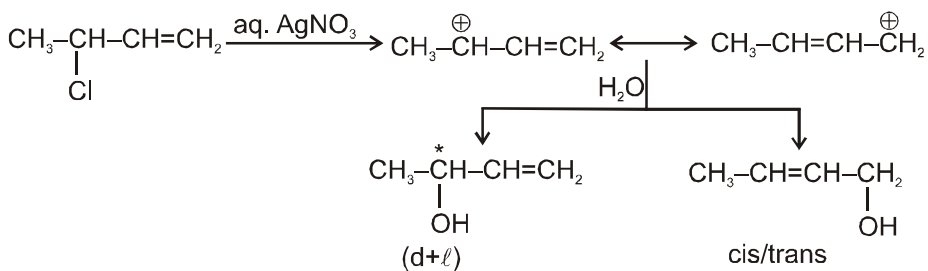
29.



32.



33.



Structural = 2
diastereomers = 2



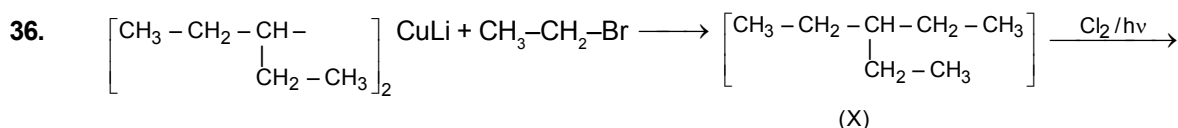
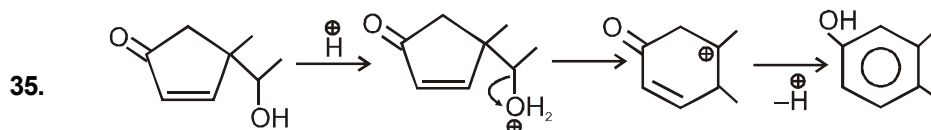
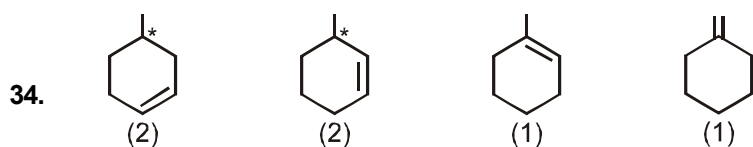
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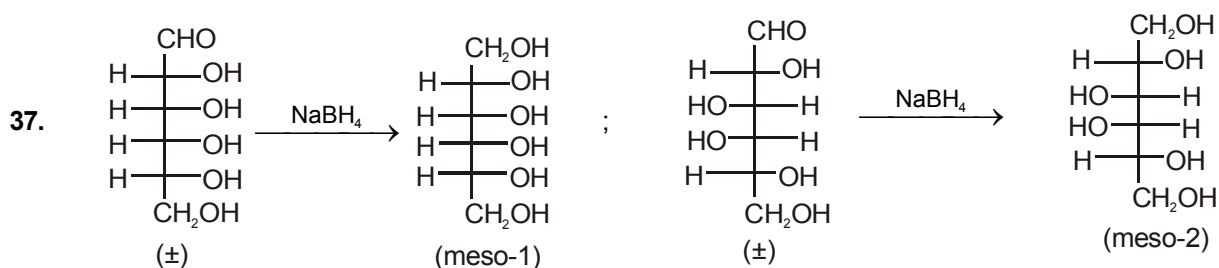
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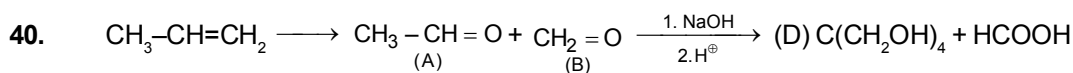
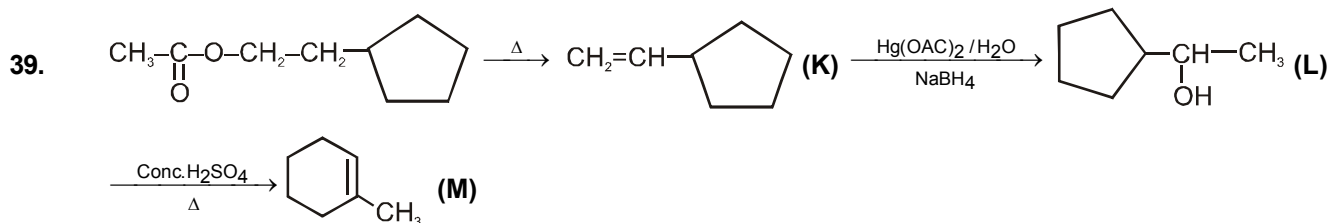
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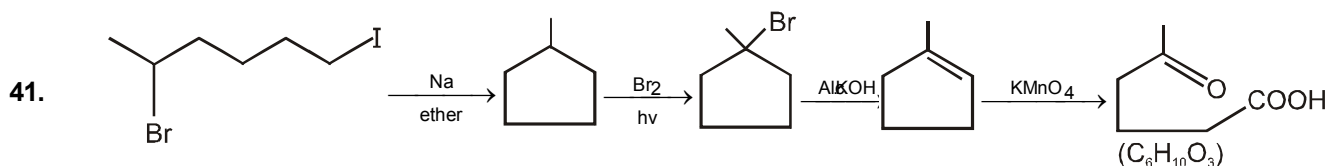
4 isomers
(with one d/l pair) $\xrightarrow{\text{Fractional distillation}}$ 3 fractions



so in total 4 stereoisomers are reduced to meso products.



Answer : $136/4 = 34$



Mol. wt. of $\text{C}_6\text{H}_{10}\text{O}_3 = 72 + 10 + 48 = 130/10 = 13$

