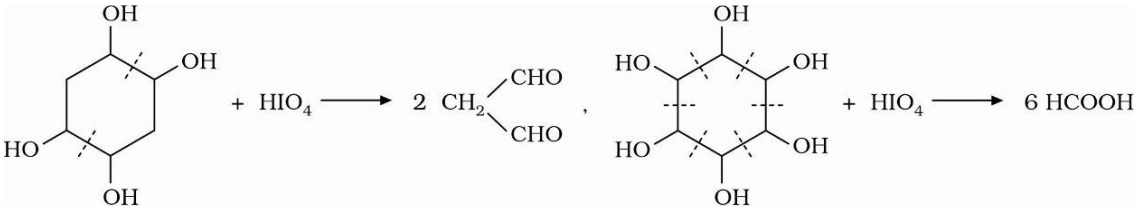
Daily Tutorial Sheet-11	Numerical Value Type for JEE Main

126.(3) $CH_3-\overset{O}{\overset{\|}{C}}-\overset{O}{\overset{\|}{C}}-OH$ will not give reaction with HIO_4

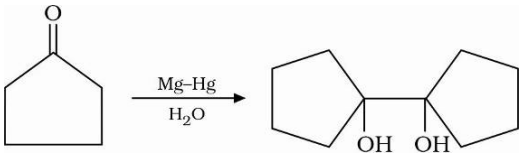
127.(12) $CH_3-\underset{OH}{CH}-\underset{O}{C}-CH_3 + HIO_4 \longrightarrow CH_3-CHO + CH_3COOH$

$CH_3-\underset{OH}{CH}-\underset{OH}{CH}-CH_2-CH_3 + HIO_4 \longrightarrow CH_3-CHO + CH_3-CH_2-CHO$



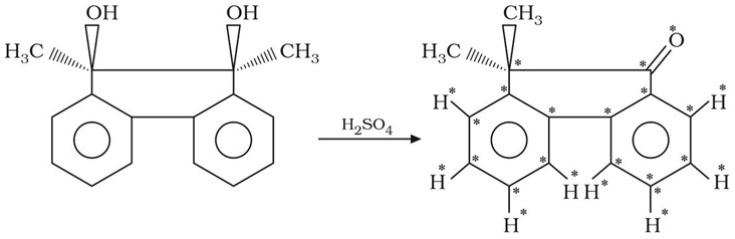
128.(1) Pinacol – Pinacolone rearrangement is given by vicinal diol

129.(2)

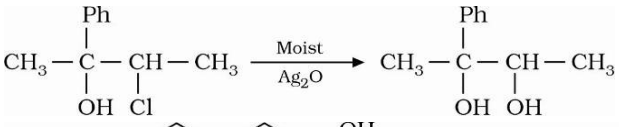


(Pinacol coupling reaction)

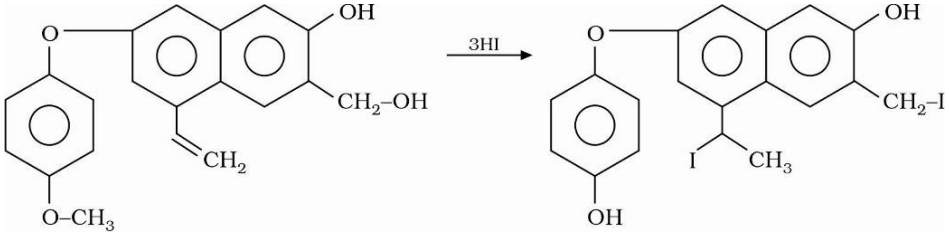
130.(23)



131.(2)



132.(3)



133.(1) Tertiary alcohol will be more reactive than secondary alcohol for lucas reagent.

134.(3) Primary alcohol, Iodide and nitro compound will give red colouration in victor-mayer test.

135.(6) $CH_3-\underset{CH_3}{CH}-I$ and $CH_3-\underset{CH_3}{CH}-OH$

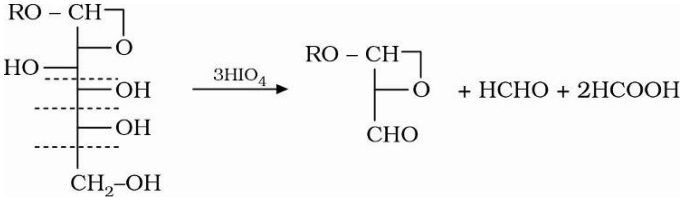
Can not be distinguished because they both are secondary groups.

136.(5) $CH_3-\overset{\overset{O}{\|}}{C}-$ group having mass = 43.

$\rightarrow$ One acetyl group is added by removal of 1 hydrogen atom

$\rightarrow$ So, number of hydroxyl group are $\frac{390-180}{42}=5$.

137.(3)



138.(3) $C_3H_8O_3 + CH_3MgI \longrightarrow CH_4$

$\frac{0.092}{92}$ $\qquad$ $\frac{67}{22400}$

$=0.001$ mole $\qquad$ $=0.003$ mole

Therefore, 3 active hydrogen atoms are present.

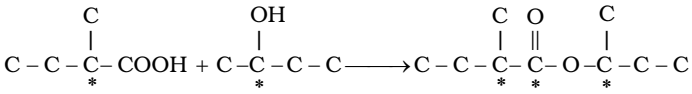
139.(5) 1. $C-C-C-C-C-OH$

2. $C-\underset{\underset{C}{|}}{C}-C-C-OH$

3. $HO-C-\overset{*}{\underset{\underset{C}{|}}{C}}-C-C$ (2 stereoisomer)

4. $\begin{matrix}C\\|\\C-C-C-OH\\|\\C\end{matrix}$

140.(4)



$\rightarrow$ (R, R)

$\rightarrow$ (R, S)

$\rightarrow$ (S, R)

$\rightarrow$ (S, S)

Because of two chiral center in the final molecule, four optically active compounds are present.