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 MATRIC NI:19/MHS10/002/

STEREOCHEMISTRY AND FUNCTIONAL GROUPS.

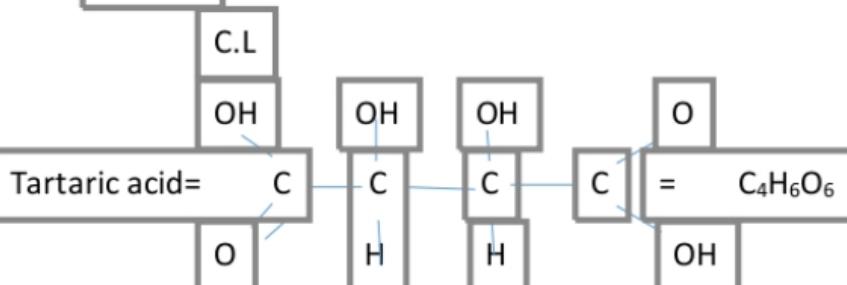
1. Name the functional groups present in each of the following molecules

- i) $\text{CH}_2\text{C}(\text{OH})\text{HCHO}$ ----- Formyl group (aldehyde) group(CHO), Hydroxyl group(OH), Alkene group
- ii) $\text{C}_6\text{H}_5\text{CH}(\text{NH}_2)\text{COCH}_3$ ----- Amines, carbonyl group, aromatic
- iii) $\text{CH}_3\text{C}=\text{CHCH}(\text{OH})\text{CHO}$ ----- Alkene, hydroxyl group, aldehyde group.

2. Concentration (mol/dm^3) = conc. (g/dm^3)

molar mass (g/mol)

$$[\alpha]^T_1 = \alpha$$



Molar mass = 150 g/mol

0.856g ----- 10cm^3

Xg ----- 1000cm^3

$$0.856 \times 1000 = 85.6\text{g}/\text{dm}^3$$

10

Concentration in g/cm^3 = concentration in (g/dm^3)

1000

$$= 85.6 = 0.0856\text{g}/\text{cm}^3$$

1000

$$= 11.68^\circ$$

$$[\alpha]^T_1 = \alpha$$

$$= 4.10^\circ$$

C.L

0.0856

