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1. FUNCTIONAL GROUPS PRESENT IN MOLECULES OF COMPOUNDS

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I. $CH_2=C(OH)HCHO$, functional groups include; =, -OH, –– C –– H (Alkene, alcohols and alkanals)

II. $C_6H_5CH(NH_2)COCH_3$, functional groups include; phenyl group, amine(NH_2), ketones; -C=O

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OH

III. $CH_3C=CHCH(OH)CHO$, functional groups include; =(alkene), aldehydes and alcohols (-OH)

2.

Specific rotation = $\frac{\text{observed rotation (in degrees)}}{\text{Concentration in g/cm}^3 \text{ x path length of sample cell in dm}}$

Amount in grams= 0.856g

Amount in cm^3= 10cm^3

Conc. in g/cm^3= $\frac{0.856}{10}$

$= 0.0856 g/cm^3$

Path length of sample in dm= 1dm

Specific rotation= $\frac{+10^0}{}$

0.0856×1

Specific rotation= $11.68 g^{-1} cm^3 dm^{-1}$

3.