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## ASSIGNMENTS ON STEREOCHEMISTRY AND FUNCTIONAL GROUP

1. FUNCTIONAL GROUPS PRESENT IN MOLECULES OF COMPOUNDS

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- I. CH<sub>2</sub>=C(OH)HCHO, functional groups include; =, -OH, — C — H (Alkene, alcohols and alkanals)
- II. C<sub>6</sub>H<sub>5</sub>CH(NH<sub>2</sub>)COCH<sub>3</sub>, functional groups include; phenyl group, amine(NH<sub>2</sub>), ketones; -C=O OH
- III. CH<sub>3</sub>C=CHCH(OH)CHO, functional groups include; =(alkene), aldehydes and alcohols (-OH)
- 2.

Specific rotation = observed rotation (in degrees)

Concentration in g/cm<sup>3</sup> x path length of sample cell in dm

Amount in grams= 0.856g

Amount in  $cm^3 = 10cm^3$ 

Conc. in  $g/cm^3 = 0.856$ 

10

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

Path length of sample in dm= 1dm

Specific rotation= $+1.0^{\circ}$ 

0.0856 x 1

Specific rotation= 11.68g<sup>-1</sup>cm<sup>3</sup>dm<sup>-1</sup>

