UZOMA KAOSISOCHUASSIGNMENTS ON STEREOCHEMISTRY AND FUNCTIONAL GROUP

1. FUNCTIONAL GROUPS PRESENT IN MOLECULES OF COMPOUNDS

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I. CH2=C(OH)HCHO, functional groups include; =, -OH, –– C –– H (Alkene, alcohols and alkanals)

II. C6H5CH(NH2)COCH3, functional groups include; phenyl group, amine(NH2), ketones; -C=O

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 OH

III. CH3C=CHCH(OH)CHO, functional groups include; =(alkene), aldehydes and alcohols (-OH)

2.

Specific rotation = observed rotation (in degrees)

 Concentration in g/cm3 x path length of sample cell in dm

Amount in grams= 0.856g

Amount in cm3= 10cm3

Conc. in g/cm3= 0.856

 10

 = 0.0856g/cm3

Path length of sample in dm= 1dm

Specific rotation= +1.00

 0.0856 x 1

Specific rotation= 11.68g-1cm3dm-1



