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**DEPARTMENT: PHARMACY**

**MATRIC NO.: 19/MHS11/036**

**DATE: 15-05-2020**

 **ASSIGNMENTS ON STEREOCHEMISTRY AND FUNCTIONAL GROUP**

1. **FUNCTIONAL GROUPS PRESENT IN MOLECULES OF COMPOUNDS**

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1. CH2=C(OH)HCHO**,** functional groups include; =, -OH, –– C –– H (Alkene, alcohols and alkanals)
2. C6H5CH(NH2)COCH3**,** functional groups include; phenyl group, amine(NH2), ketones; -C=O

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 OH

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

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

1. ****