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**DEPARTMENT: PHARMACY**

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**CHM 102 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 present are; =, -OH, –– C –– H

(i.e. alkene, alcohols, alkanals)

1. **C6H5CH(NH2)COCH3,** functional groups present are; phenyl group, amine(NH2), ketones; -C=O

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 OH

1. **CH3C=CHCH(OH)CHO**, functional groups present are; =(alkene), alkanals, -OH(Alcohols)
2. **SPECIFIC ROTATION OF (2R, 3R)- TATRTARIC ACID**

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

Amount 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. ****