JSOMERISM

Dehain isomorum: differ in length of procent chain

Alkyl alkanes exhibits only chain isomers but not positional H.C Min of ('s

alkane 40 alkere 40

alleyne 50

No of chain inmou Alkane 2

Cyltio G H12 3 5 6 H14

9 G H16 18 (g H18 35 G H20

C10 H22 75 Gy-H-32 375 1 Positional isomereism: deffer in position of functional grace

substituent. 10)

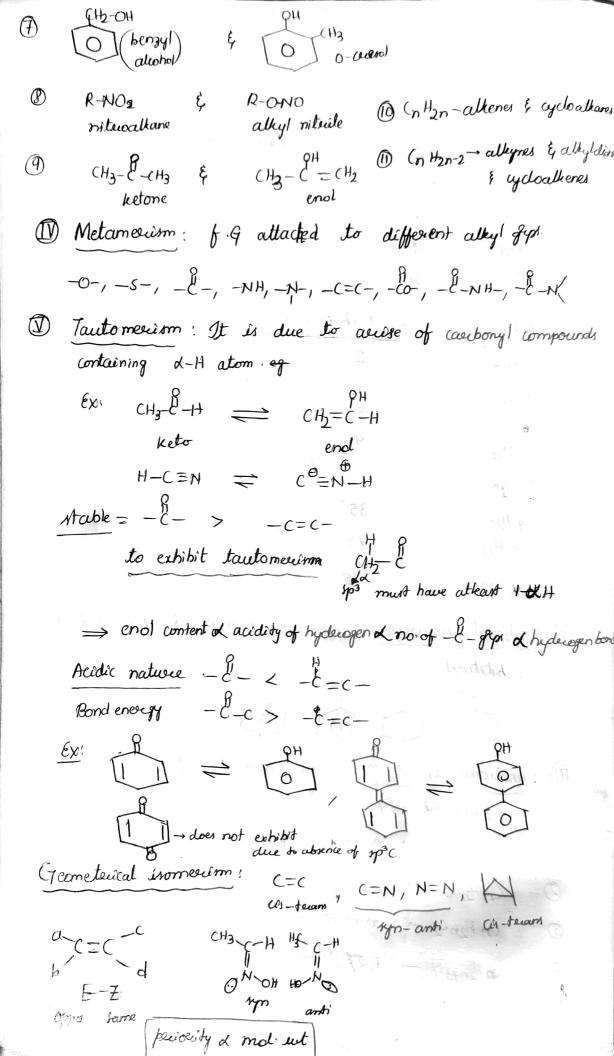
Functional isomerism: same molecular formulae but differ in functional grip. Cn H<sub>2n+2</sub> O → Alcoholi & ether 1

Cn 1200 - alderydes & ketores 2

(n 12n02 → carrboxylic acids & exteris 3

(nH2n+3N -> 1,2/f3 amines (aluphatic only) (F) 3 R-CN & R-NC

6 & CH3-CH=N-OH (H3-CH2-N=0 oxime mitecono



Geometeiral isomerism >, equal to 8 (>8) 1,28 1,4 1,6 4,0  $a_i^{\alpha}$ 1,3 \$ 1,5 0,0 [x],= Tavitavia acid\_ C0014 1(-) d(+) mentantic acid The equimolar mixture of enantianers Racemic mixture: 50/ of R+50/ of Sz Racemic Mix Optical active compounds without threat centeres 2) even no of spiseo 1 even no of alleres H-C=C=C=H H-S =C+3 3 even no of cycloalkyldenes 4 Biphenyl compounds as trans B Bolling D Dipok moment S Solubility · Al melling S Hability Exythere & thereo system:

Thereo

stability more for staggered. cclipsed energy & 1 stability -> Bayer Steerin theory Hability & (heat of combustion values) R-S Notation H - horizon. → cw R - S/ R-C·W S-ACW H - ventical D-L Nomenclatuece: In optical enomes if H is present on left it is D-form, if H is fresent towards enight & other grap accupy left position it is 1-form. Enantioners: Non superimposable miscleon images. Me H BY BY H Diasteriermens: Isomeris which are non-superimposable & not related to each other as mirror image. differ in phyrical & chemical proporties Revoluty for S.I - Ring chain > Tautomerism > FG > metamerism > Chain examerism > positional examerism. Stability of compound: optical purely = [x]on O Newhal > @ ER > @ ER

if a different frunctional group are present ion bipheny) group it acts also chiral carbon total no of inomen 28223 - charact control