

B.Sc. I

Paper II Organic Chemistry

OPTICAL ISOMERISM

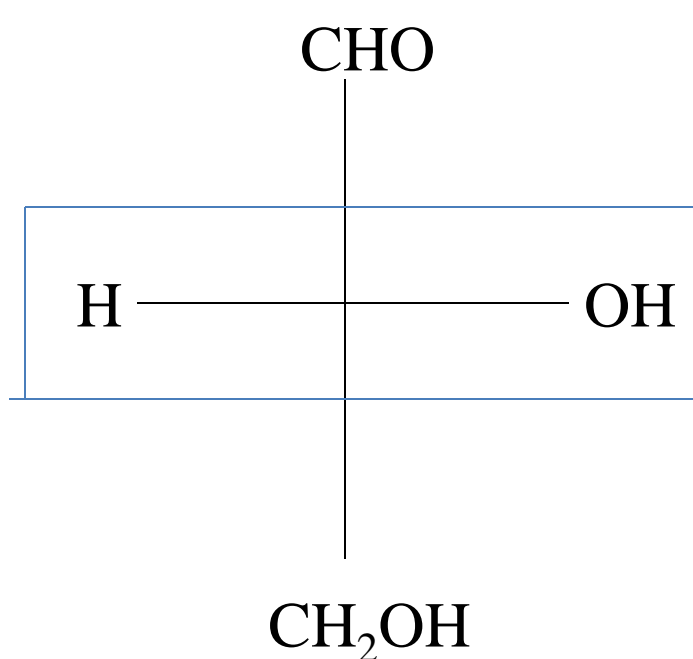
DR. VINITI GUPTA

ASSOCIATE PROFESSOR

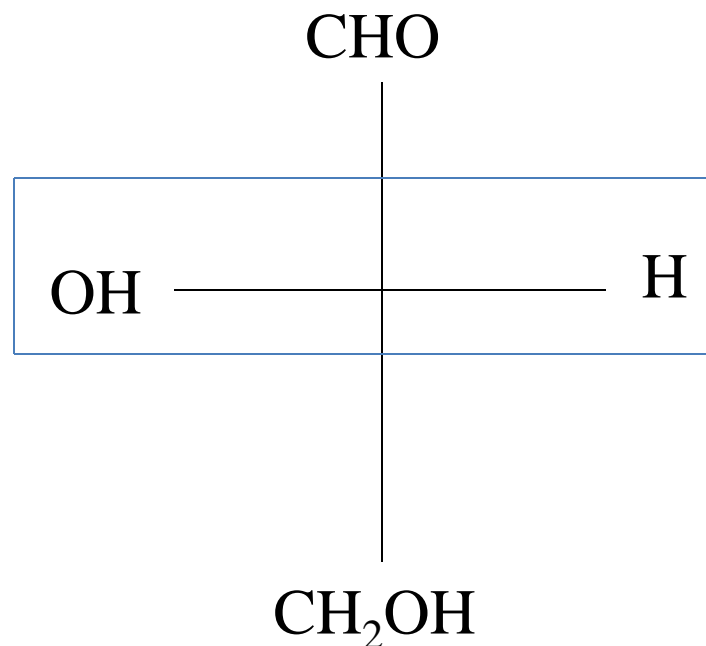
ORGANIC CHEMISTRY

**SRI TIKA RAM KANYA MAHAVIDYALAYA
ALIGARH**

RELATIVE CONFIGURATION [D and L Notation]



D – Glyceraldehyde
D - family

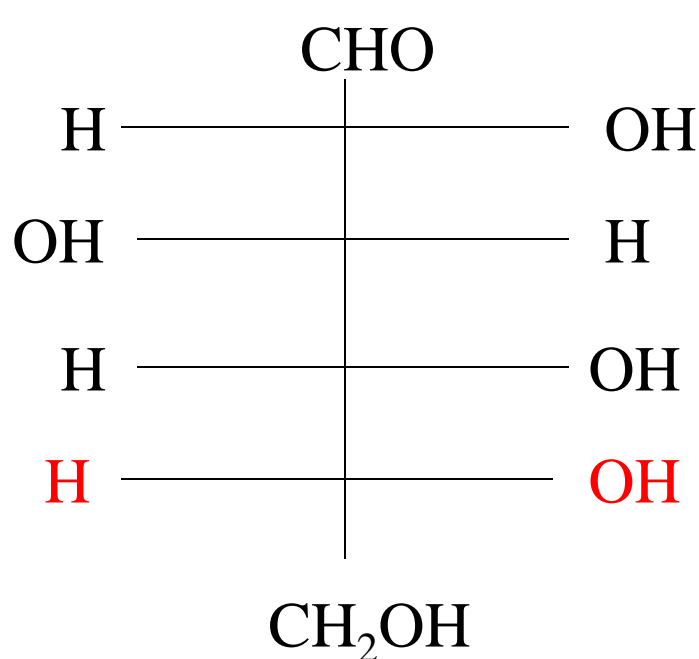


L – Glyceraldehyde
L - family

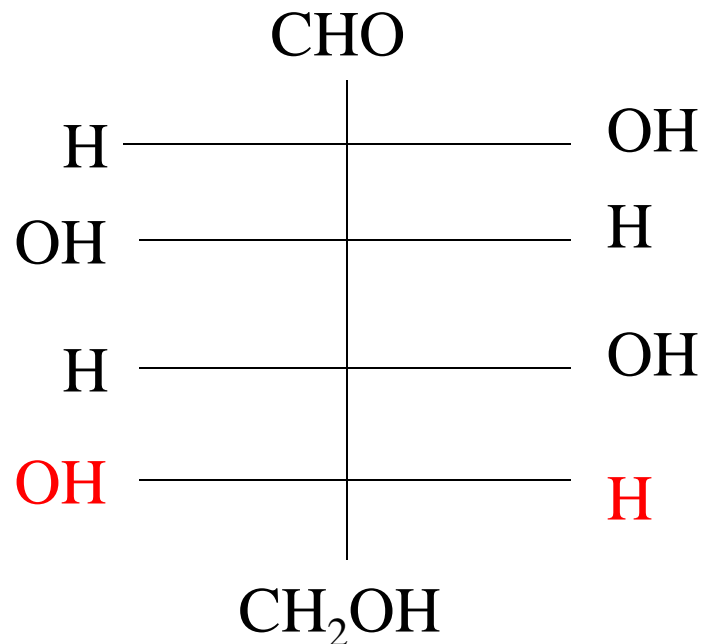
The arrangement of atoms in space indicate whether the stereoisomer belongs to D series or L series.

This notation does not give information about the rotation of PPL.

RELATIVE CONFIGURATION [D and L Notation]



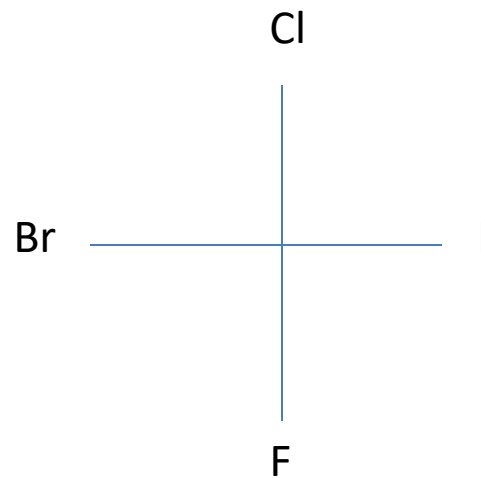
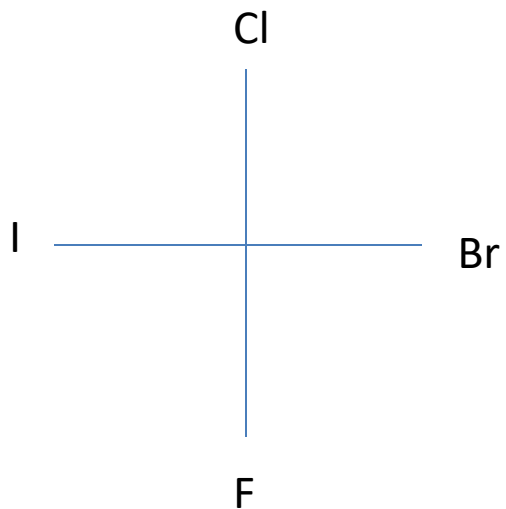
D - Glucose



L - Glucose

Capital letters D and L represent configurational relationship. This means configuration in relation to D and L Glyceraldehyde. This does not show the rotation of polarized light.

ABSOLUTE CONFIGURATION – R AND S SYSTEM



WALDEN INVERSION, RETENTION, RACEMISATION

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