

UNIT-IV:

Chemistry of some typical natural products - A study of the following compounds involving their isolation, structure elucidation, Synthesis and biogenesis-Flavon: quercetin, cyanidin and genestein, Terpenoids, α -terpene-pinene, camphor, farnesol. Alkaloids-atropine, nicotine and quinine, purine-caffeine.

~~Topics to be added under M.Sc (Pre) Paper-III Unit-IV.~~

Configuration and ring structures of glucose and fructose and anomeric effects.

Further it is resolved to conduct practical examination for M.Sc (Final) Organic Chemistry for the students of admitted batch 2000-2002 and onwards as given below.

M.Sc (Final) Organic Chemistry practical examinations.

Practical-I Analysis of Organic mixtures involving two components.

TEXTBOOKS:

1. Organic Chemistry, Vol.I (Sixth Edn), and Vol.II (Fifth Edn), by I.L. Finar, ELBS.
2. Organic Chemistry (Fifth Edn.) by Morrison and Boyd, PHI, India.
3. Organic Chemistry by Mukherjee, Singh and Kapoor, Vol I and II, Wiley Eastern.
4. Reaction mechanism in Organic Chemistry by Mukherjee Singh, Macmillan India.
5. A guide book to mechanism in Organic Chemistry by Peter Sykes, ELBS.

REFERENCE BOOKS:

Advanced Organic Chemistry by Jerry March (3rd Edn) Wiley Eastern.

Chemistry of Natural Products, K.W. Bentley (Ed.) Stereochemistry of carbon compounds by E.Eliet. McGraw Hill.

Stereo Chemistry of Organic Compounds by D.Nasipuri Chemistry of Natural Products by P.S. Kalsi Kalya Publishers. 1983.