

## Paper : I CHN-601-(O) Organic Chemistry

Unit :- 1

### ® Natural Colouring Matter :-

- Classification General method of Structural determination, Biosynthesis studies of Anthocyanine (Cyanin and Palargonidin), Flavones (Chrysin), Flavonols (Quercetin), Flavonone (Dihydro flavone) and Isoflavones(Daidzein), Coumarin, Quinones (Polyporic Acid), Porphyrin.
- Chemistry of Haemin and Chlorophyll.

Unit :- 2

### ® Terpenoids :-

- Chemistry of Abietic acid, Gibberlic acid (Gibberllin – A), Squalenes, Eudesmol, Phytol and –Cadinene.
- Biosynthetic study of Tri-Terpenoids and Tetra Terpenoids

Unit :- 3

### ® Vitamins :-

Detailed study of chemistry of Thiamine (Vitamin-B1), Pantothenic acid (Vitamin-B2), Ascorbic acid (Vitamin-C), Tocopherol (Vitamin-E), and Biotin (Vitamin-H), Biological importance of Vitamins.

Unit :-4

### ® Alkaloids :-

- General Biogenetic studies of Alkaloids.
- Chemistry of Reserpine, Coichicine, Strychnine and Narcotine.