

Paper : II CHN-602-(O) Organic Chemistry

Unit :- 1

- Ⓔ Basic Principles : Basic chemical data, Batch versus continuous operation, Design Flowcharts, chemical process selection, safety hazards, fire and toxic materials, research and development, patents.
- Ⓔ Unit process and Unit operations, Nitration, halogenation, amination, sulphonation and hydroxylation.

Unit :2

- Ⓔ Soap and Detergents :
 - Detergents, surfactants, Alkylbenzenes, Fatty acids and Fatty alcohols, Soaps.
 - Essential oils, constituents, animal fixatives, fruit concentrates, Vanilla, chocolate, monosodium glutamate, food additives, preservatives.

Unit :3

- Ⓔ Vegetable oils, cotton seed oil, Hydrogenation.
- Ⓔ Agrochemicals and Pharmaceuticals :
 - Insecticides, fungicides, weedicides, rodenticides, plant nutrients, plant hormones.

Unit :4

- Ⓔ Pulp, pulping processes, Sugar-Ethanol industries base carboxyl. manu facture of paper and rayon.
 - Alkylation (Phenobarbital, Cimetidine), Carboxylation and Acetylation Salicylic acid derivatives, condensation and cyclization, Diazepam, piperazine citrate.