Paper: II CHN-702-(O) Organic Chemistry

Unit: 1

- ® Synthetic Industries based on petroleum:
 - Coal, petroleum, natural gas, organic chemicals from coal distillation refining of crude oil for industrial fuels, C1,C2,C3,C4 and aromatic chemicals.
 - Textile fibers classification, manufacture of important polyamide, poly ester fibers.

Unit:2

® Industries Paint and varnish- Classification of paints manufacture of paints. Methods of applying paints. Application.

Varnish – Raw materials, manufacture of varnishes types of varnishes.

- ® Explosives, Propellents and toxic Chemical Agents:
 - Types of Explosives, Charactristics of explosive, Industrial explosives, Propellants, Rockets and Missiles, Propellants for Rockets, Miscellaneous industrial Explosives uses, Pyrotechniques, Military explosives, Incendiaries, Toxic chemical agents (Weapons)

Unit:3

- ® Industrial Polymers :
 - Polyethylenes Introduction, Manufacture, low and high density polyethylene co-poly-mers of ethylene and application.
 - Monomers Dacron, orlon, Bakelite, Nylone 6,6, Teflon polymer reactions –
 Hydrogenation, Addition and substitution, aldehyde and ketonic group reactions. Cyclization reaction, Cross linkage reaction.
 - Resins Introduction preparation, Mechanism type of resin, Applications
 - Acrylic Polymer
 - (1) Poly acrylated and polymethyl acrylate.
 - (2) Poly methylmeth acrylate.
 - (3) Poly acrylo nitrile.

Unit:4

® Selected small scale industries: safety matches, Agarbatties, naphthalene balls, candles, shoe polish, Gum paste, pen ink, removal of stains, Phenyl disinfectant, soaps, detergents.