

**Semester  
I  
(Practical  
A)**

Time: 6 Hrs.

M.M. 100 marks

- Synthesis of Monomers, Plasticizer and Polymer intermediates: Triphenyl phosphate, Tricresyl phosphate, Diphenyl succinate, p-chloro nitrobenzene, Di (4-nitro phenyl) sulphide, Di (4-nitro phenyl) sulphone and Hexa.
  
- One stage synthesis of PF resin.
  
- Determination of free phenol content in PF resin.
  
- Synthesis of UF resin.
  
- Determination of free formaldehyde in UF resin.
  
- PMMA synthesis by free radical polymerization.
  
- Thermosetting of PF resin.
  
- Precipitation polymerization of acrylonitrile.
  
- Solution polymerization of acrylamide in presence of a redox initiator.
  
- Synthesis of polymethyl acrylate by emulsion polymerization.