

SEMESTER-III

M.Sc. (Industrial Chemistry)

Practicals

Paper S-3055

Duration 8 hrs.(One day)

M.M.:

200

Distribution of Marks:

Experiment - I-Major exercise A	=40 Marks
Experiment - II-Major exercise B	=40 Marks
Experiment - III-Minor exercise A	=20 Marks
Experiment - IV-Minor exercise B	=20 Marks
Viva -voice	=15 marks
Record	=15 marks
Seminar and Project Report	=50 marks

- (1.) Preparation of (1) Urea formaldehyde
- (2.) (2) Phenol formaldehyde resins
- (3.) Thiol rubber
- (4.) Condensation polymer
- (5.) Epoxy resin
- (6.) Polymerisation of acrylonitrile
- (7.) Solution polymerization of vinyl acetate
- (8.) Preparation of free radical polymer
- (9.) Determination of M.P., storage time and gel time of phenolic resins. (10.) Determination of molecular weight by amine and group analysis.
- (11.) Determination of viscosity of polymer by u
- (12.) Determination of Ash content.
- (13.) Determination of specific gravity of prepared polymer/resin.
- (14.) Determination of acid value of plastic material.
- (15.) Determination of saponification value of plastic material.
- (16.) Determination of iodine value of plastic material.
- (17.) Determination of hydroxyl value of plastic material.
- (18.) Determination of carbonyl value of plastic material.
- (19.) Determination of molecular weight of polymer.
- (20.) Determination of capacity of a cation exchange value of polymer. (21.) Determination of capacity of an anion exchange value of polymer