Semester IV (Practica I- A)

Time: 6 Hrs. M.M. 100 marks

• Identification of plastic (i)
Preliminary test. (ii)
Solubility test.

(iii) Elemental analysis (test for heteroatom). (iv) final identification by chemical test

Specific identification test
(a) Plastic containing
nitrogen (b) Plastic
containing chlorine (c)
Plastic containing
fluorine (d) Plastic
containing sulphur

- (e) Plastic not containing nitrogen, sulphur and halogens.
- High temperature resistant thermoplastics.
- Miscellaneous properties of plastics

Identification of rubber

(v) Preliminary test. (vi) Solubility test. (vii)Elemental analysis.

(viii) final identification by chemical test Group 1- Rubber containing nitrogen Group 2- Rubber containing chlorine Group 3- Rubber containing bromine Group 4- Rubber containing fluorine Group 5- Rubber containing sulphur Group 6- Rubber not containing n

Group 6- Rubber not containing nitrogen, halogen and sulphur • Miscellaneous properties of rubber.

- Spectral analysis: Characterization of organic compounds in the basis of given Xerox copies of spectra (UV, IR, NMR and Mass)
- Thermal characterization: Study of polymer using TGA,DTS, and DSC on the basis of given data.