SEMESTER-I

M.Sc. (Industrial Chemistry)
Practicals
Paper S-1055

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

Analysis of Minerals/Ores/Alloys

1. Determination of CaO & MgO, Al_2O_3 and Silica in supplied mixture - 2
2. Analysis of Brass (Cu & Zn contents)/ Solder(Sn & Pb contents) - 2
3. Analysis of Wood's-2 Metals Bi/Cd/Pb

Organic estimations & Synthesis

(1.) Glucose - 1
(2.) Carbonyl - 1
(3.) Two stage preparation (Yield, Crystallization, M.P. Determination,) –2

Water analysis

(4.) Total hardness of water - 1

(5.) Alkalinity-OH^- /CO_3^{2-}/OH^- +HCO_3^- - 1 (6.) Chloride contents –1

Physical Experiments

(7.) Viscosity - 1
(8.) Spectrophotometric determination of mixture of two compounds ($KMnO_4$ + K_2Cr_2O)-1
(9.) Analysis of soil/water using AAS