

M. Sc. 3rd SEMESTER PRACTICAL EXAMINATION, 2018

INORGANIC CHEMISTRY

PRACTICAL

PAPER-L-VI-I

Time: Six hours (11:00 a.m. – 5:00 p.m.)

Full Marks: 50

1. In a 250 ml Erlenmeyer flask, take 35 ml distilled water followed by compound C, compound D and 3.0 grams of compound E. To it add 15 ml 1:1 ammonia. Stir the mixture and warm to around 70°C. Pass air vigorously for 45 minutes. Add 10 ml 6 (N) HCl. Keep the mixture on a ice bath for a further 20 minutes. Collect the precipitate. Submit the dried pure product. Report its yield. 20
2. Characterize the prepared complex (in 1. above) using UV-Vis spectroscopy, IR spectroscopy and magnetic moment measurement studies. 10
3. Internal Assessment 10
4. Viva-voce and note book 10