

Ex/Msc/Ch/3/PR/V+VI/15/2017

M. Sc. 3RD SEMESTER PRACTICAL EXAMINATION, 2017

INORGANIC CHEMISTRY

PRACTICAL

PAPER - L-VI-I

Time : Six hours (11:00am – 5:00pm)

Full Marks : 50

1. Dissolve alanine (0.9 g) and sodium acetate (1.64 g) in 25 mL water (heat if necessary). Add a solution of salicylaldehyde (1.1 mL) in 25 mL water to it. Stir the resulting mixture with a magnetic stirrer and add the aqueous solution (10 mL) of the supplied sample 'marked C'. Wait for a few minutes until a ppt. will appear. Filter, wash thoroughly with water followed by ethanol and ether. Dry the resulting mass and weigh out and report the yield and characterise the compound by spectral and magnetic studies.
20
2. Follow spectrophotometrically, the interaction of the supplied metal complex (Marked D) with nucleic acid. 10
3. Internal assessment. 10
4. Viva-voce & Note Book. 10

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1. Determine by Job's method the ratio of metal and ligand of a complex formed by the supplied sample marked A and appropriate reagents. 20
2. Find out the magnetic moment of the supplied sample marked B. 10
3. Internal assessment. 10
4. Viva-voce & Note Book. 10