M.Sc. 3rd SEMESTER PRACTICAL EXAMINATION, 2019.

INORGANIC CHEMISTRY

PRACTICAL.

PAPER-L- VI –I

Time: Six hours (11:00 a.m. -5:00p.m.) Full Marks: 50

1. In a 100 ml beaker, dissolve 3 g of nickel(II) chloride hexahydrate in 5 ml of warm deionized water. In a fume hood slowly the supplied solution marked "C". Cool the mixture in an ice bath followed by addition of ~ 7.5 ml of cold ethanol. Allow the mixture to settle for complete precipitation. Filter the product and wash with 5 ml of cold ethanol and followed by 3-4 ml of cold acetone.

   Dry the resulting mass and weigh out the product and report the yield. [15]

2.(A). Characterize the compound by UV-Vis spectrum and hence calculate the 10 Dq the Racah Parameter and configurational interaction value. [10]

(B). Measure and calculate the magnetic moment. [5]

3. Internal assessment. [10]

4. Viva voce & Note Book. [10]