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UG/4th Sem/CHEM/19(Pr.)

2019

B.Sc.

4th Semester Examination CHEMISTRY (Honours)

(Inorganic Chemistry)

Paper - C9P

[Practical]

Full Marks: 20

Time: 3 Hours

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

- Estimation of total amount Zn⁰ ion present in supplied solution.
 - (a) Prepare (M/50) standard Zn(OAc)₂.2H₂O solution by accurate weighing.
 - (b) Standardisation of supplied EDTA Solution

Take an aliquot of 25 ml of the standard Zinc acetate solution in a 250 ml. Conical flask. Add

5 ml of pH – 10.5 buffer (NH₃ - NH₄Cl buffer) solution and pinch amount of EBT indicator. Shake the whole solution to dissolve the solid. Titrate the solution with supplied EDTA solution till the colour changes from wine red to blue. Calculate the strength of EDTA solution.

(c) Titration of Supplied ZnII Solution

Take 25 ml of the supplied solution into a 250 ml conical flask, dilute with ~ 20 ml of the distilled water. Add 5 ml pH ~ 10.5 buffer and pinch amount EBT indicator. Shake well to complete dissolve of solid indicator. Titrate with previously standardised EDTA solution, until the colour changes from wine red to blue.

Record the titre value and calculate the amount of Zn^{II} in gm/lit.

2. Viva voce

3

3. LNB

2