ACHARYA NAGARJUNA UNIVERSITY DEPARTMENT OF CHEMISTRY M.Sc. CHEMISTRY :: SEMESTER-II

PRACTICAL-I: INORGANIC & PHYSICAL CHEMISTRY (R22CH25)

(For the students admitted from the A.Y. 2022-2023 onwards)

Max. Marks: 100 (Internal-30M & External-70M)

A total Six (6) Experiments must be carryout taking minimum of '3' in each section

LIST OF EXPERIMETNS:

SECTION-I: INORGANIC CHEMISTRY

Semimicro analysis of six radical mixtures containing one interfering radical and one less familiar cation each.

Interfering Anions : Oxalate, tartrate, phosphate, chromate.

Less familiar Cations : Thallium, molybdenum, thorium, zirconium, vanadium, uranium.

(Minimum three Mixtures)

SECTION-II: PHYSICAL CHEMISTRY

- 1) Potentiometric determination of Fe(II) with Cr(VI)
- 2) pH-metric determination of strong acid with strong base.
- 3) Conductometric titration of strong acid with strong base
- 4) Verification of Beers Law using potassium permanganate.

Reference Books:

- 1) Vogels Text Books of Qualitative analysis, Revised. J. asset, R.C. Denny, G.H. Jeffery and J. Mendhan. ELBS.
- 2) Synthesis and Characterisation of Inorganic Compounds, W.L.Jolly. Prentice Hall.
- 3) Practical Inorganic chemistry by G. Pass and H. Sutcliffe Chapman and Hall.
- 4) Practical Inorganic Chemistry by. K. Somasekhar Rao and K.N.K. Vani.

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