

Semester - 2

## M.Sc., Chemistry Previous Practicals ( II Semester)

### Inorganic Chemistry (Practical-I):

#### Qualitative Analysis:

Semimicro qualitative analysis of an inorganic mixture containing three cations (one less familiar cation) and three anions (one interfering anion)

Less familiar cations: Tl, Mo, Th, Zr, V and U.

Interfering anions: Oxalate, tartrate, phosphate and chromate.

#### Chromatography:

Separation of cation and anion by Paper Chromatography (atleast one experiment)

### Organic Chemistry (Practical-II):

Qualitative Analysis of an organic compounds.

Phenols, Carbonyl compounds (Aldehydes & Ketones), Acids, Nitro compounds, Amines, Amides and carbohydrates. (2 compounds are to be given for analysis with preparation of one solid derivative for each).

### Physical Chemistry (Practical-III):

Potentiometric determinations of

1. Fe(II) with Ce(IV)
2. Fe(II) with  $K_2Cr_2O_7$
3.  $V^{5+}$  &  $MnO_4^-$  with Fe(II)

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