# Total Pages-2 RNLKWC(A)-/CHEM(H)/MM10P/SEM-I/2023

#### 2023

## Chemistry (H)

# B.Sc. First Semester End Examination - 2023 PAPER - MM101P

Full Marks: 20

Time: 2 hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Carry out the experiment that will be allotted to you by lottery

a) Table: 2+2+2
b) Results: 8
c) Calculation: 1
3. Laboraroty Note Book 2
4. Viva-Voce 3
(Turn Over)

### Procedure of Q No. 1

 Preparation of 100 ML (N/10) K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> solution: weight of 0.49g K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> is to be taken and dissolved in distilled water and made up to the mark in a 100 ml volumetric flask.

## 2. Estimatation of Fe2+ ion:

Pipette out 25 ml of the supplied Mohr's salt solution into a 250 ml conical flask, add 125 ml of 2N H<sub>2</sub>SO<sub>4</sub> and 5ml Syrupy H<sub>3</sub>PO<sub>4</sub> acid and add 4-5 drops BaDS indicator and titrate the solution by standard N/10 K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> solution running from a burette drop by drop until the colour of the solution just changes from green to violet. Note the titre value to calculate the amount (gm/letre) of Fe<sup>2+</sup> ion present in the supplied sample.

B.Sc. RNLKWC(A)-/CHEM(H)/MM101P/SEM-III/2023