

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
FACULTY OF SCIENCE
B.SC. I YEAR PRACTICAL EXAMINATION
CHEMISTRY PAPER - IV

Time : 4 Hours

Centre :

Batch No. :

Marks : 100

Date :

Time : 9 to 1 pm

- Q. 1 Qualitative Inorganic analysis. **30**
Analyse given Inorganic mixture by semi-micro analysis method and find out two acidic and two basic radicals.
- Q. 2 Volumetric Analysis. **30**
- i) Calibrate the given pipette/Burette
- Or**
- ii) Prepare 0.1 N NaOH solution and standardise by using given oxalic acid solution.
- Or**
- iii) Prepare 0.1N oxalic acid solution and standardise it with given KMnO_4 solution.
- Or**
- iv) Prepare 0.1M sodium thiosulphate solution and standardise by using Iodine solution.
- Or**
- v) Prepare 0.1N oxalic acid solution and standardise given NaOH solution, with the use of standardised NaOH estimate the amount of HCl in given solution.
- Q.3 Inorganic complex preparation **30**
Prepare Complex.
- Q. 4 Record Book **05**
Viva- Voce **05**

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

B. Sc. First year

Practical Examination Paper V

Time: 4hrs

Maximum Marks: 100

Section A (Organic Chemistry)

- Q.1. Analyze given organic compound, Identify nature and functional group, detect elements, prepare suitable derivative and report physical constant 25 Marks
- Q.2. Estimate the amount of -----in given solution. 20 Marks

Section B (Physical Chemistry)

- Q.3. Determine equivalent weight of Mg using Eudiometer 20 Marks

Or

Verify Freundlich absorption isotherm of acetic acid on charcoal.

Or

Study the Kinetics of acid hydrolysis of ethyl / methyl acetate.

- Q.4. Determine surface tension of given liquid by stalagno-meter. 25 Marks

Or

Determine viscosity of given liquid by Ostwald's viscometer

Or

Determine order of oxide-iodide reaction.

- Q.5. Record Book 05 Marks

Viva-voce 05 Marks