

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

Faculty of Science

B.Sc. I Year Practical Examination

CHEMISTRY

(Organic & Physical)

Paper V (New)

Time : 4 Hrs.

Date :

Centre :

Max.Marks : 100

Batch No. :

SECTION (A)
ORGANIC CHEMISTRY

- Q. 1) Organic Qualitative analysis : Nature, Elements, Functional group
Physical constants determination and derivative . (25 Marks)
- Q.2) Organic Estimation of Acetone/Aniline/Phenol by Bromination. (20 Marks)
OR
Estimation of basicity/ Molecular Weight of an organic acid with known
molecular weight/ basicity.

SECTION (B)
PHYSICAL CHEMISTRY

- Q.3) a) Determine Equivalent weight of Mg. using Eudiometer. (20 Marks)
OR
Verify Freundlich adsorption isotherm of acetic acid on charcoal.
OR
Study the kinetics of acid hydrolysis of Ethyl/ Methyl acetate.
- Q.4) a) Determine surface tension of given liquid by Stalagmometer. (25 Marks)
OR
Determine viscosity of given liquid by Ostwalds viscometer.
OR
Determine order for oxide – iodide reaction.
- Q. 5) Record Book (05 Marks)
Viva-Voce (05 Marks)

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GENERAL INSTRUCTIONS

- i) Write the table number allotted to you along with your University Seat Number on Answer Book.
 - ii) Credit will be given for neat and systematic work.
 - iii) Obtain the signature of the Examiner on Mean Burette reading, recorded reading from Instrumental analysis and the weight if any, before you start calculations.
 - iv) Candidates are allowed to use logarithm table, printed or cyclostyled course.
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SECTION (A)
ORGANIC CHEMISTRY

- Q. 1) Organic Qualitative analysis only Extra Elements, Functional groups and Melting point /Boiling point determination. (25 Marks)
- Q.2) Organic Estimation of Acetone/Aniline/Phenol by Bromination. (20 Marks)
OR
Estimation of basicity/ Molecular Weight of an organic acid with known molecular weight/ basicity.

SECTION (B)
PHYSICAL CHEMISTRY

- Q.3) a) To determination of Equivalent weight of Mg. using Eudiometer. (20 Marks)
OR
b) To verify Freundlich adsorption isotherm of acetic acid on charcoal.
OR
c) To study the kinetics of acid hydrolysis of Ethyl/ Methyl acetate.
- Q.4) a) To Determine surface tension of given liquid by stalagmometer. (25 Marks)
OR
b) To Determine viscosity of given liquid by Ostwalds viscometer.
c) Determination of order for oxide – iodide reaction kinetics.
- Q. 5) Record Book (05 Marks)
Viva-Voce (05 Marks)

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