

ACHARYA NAGARJUNA UNIVERSITY
DEPARTMENT OF CHEMISTRY
M.Sc. ORGANIC CHEMISTRY :: SEMESTER-IV
PRACTICAL-I: ANALYSIS OF BINARY ORGANIC MIXTURE (R22OC45)

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

Max. Marks: 100

(Internal-30M & External-70M)

(Minimum Five Experiments must be carryout)

Part-I: One Theory question relating to any topic out of four semesters or any practical or as wish by the examiner. 15M

Part-II: Two Component Organic Mixture Analysis 45M


The Mixture Separation should be done by chemical methods and their identification by chemical reactions. Separation is based on solvent selection like ether, dil HCl, 5 % aqueous NaHCO₃, and Na₂CO₃ solutions, checking the purity of two components by TLC, identification of the compounds by a systematic study of the physical characteristics (mp/bp), extra elements (nitrogen, halogens and sulfur), functional groups, preparation of crystalline derivatives and identification by referring literature data.

(The student must be given trained in at least eight mixtures with different functional groups)

Note: 1. For University examinations the student has to submit at least one derivative for each individual component. Examination- Duration: 9 hours.

Part-III: Record submission 10M

Note: For University Practical Examination the Duration is a 9 hours.


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