

**ACHARYA NAGARJUNA UNIVERSITY**  
**DEPARTMENT OF CHEMISTRY**  
**M.Sc. ORGANIC CHEMISTRY :: SEMESTER-III**  
**PRACTICAL-II: ORGANIC ESTIMATIONS (R22OC36)**

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

**Max. Marks: 100**

**(Internal-30M & External-70M)**

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**(Minimum Five Experiments must be carryout)**

**Part I: One theory question either relating to spectral characterization or any practical or as wish by the examiner. 15M**

**Part II: The following Estimations/Isolations 45M**

**Expt. 1:** Estimation of hydroxyl group by acetylation or pthalation method

**Expt. 2:** Estimation of phenol (Bromination method)

**Expt. 3:** Estimation of aniline (Bromination method)

**Expt. 4:** Estimation of carbonyl groups (Hydrazone formation method)

**Expt. 5:** Estimation of sugars-glucose and sucrose by using Fehlings solution

**Expt. 6:** Determination of iodine value of oil or fat

**Expt. 7:** Determination of saponification value of oil or fat

**Expt. 8:** Estimation of vitamin 'C' in lime juice.

**Expt. 9:** Isolation of caffeine from tea/coffee sample.

**Part-III: Record Submission 10M**

**Note: For University Practical Examination the Duration is a 6 hours.**



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