



**PARVATHANENI BRAHMAYYA  
SIDDHARTHA COLLEGE OF ARTS & SCIENCE**

*Autonomous*

Siddhartha Nagar, Vijayawada-520010

*Re-accredited at 'A+' by the NAAC*

**22CH4L1: ORGANIC ESTIMATIONS**

Course Code	22CH4L1	I A Marks	30
No. of Lecture Hours / Week	3	End Exam Marks	70
Total Number of Lecture Hours	-	Total Marks	100
Seminar	-	Exam Hours	03

Course: ORGANIC ESTIMATIONS (22CH4L1)		
S.No	COURSE OUTCOMES	PO's
	The student will be able to	
1	Memorize the basic principles involved in organic quantitative analysis.	2,7
2	Understand the importance of organic quantitative analysis and their use in research and industry.	1,2,7
3	Exercise the procedure of quantitative analysis in chosen job roles.	1,6,3
4	Analyse the similarities and differences of the principle involved in the estimation of organic functional groups.	1,5,7
5	Evaluate how far these methods are accurate in quantitative determinations.	1,3,4,7

CO-PO MATRIX								
COURSE CODE 22CH4L1	CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7
	CO1		H					M
	CO2	M	M					L
	CO3	H			L		M	
	CO4	H				M		M
	CO5	H		M				M

**LIST OF EXPERIMENTS**

- Expt. 1:** Estimation of phenol (bromination method)
- Expt. 2:** Estimation of aniline (Bromination method)
- Expt.3:** Estimation of sugars –glucose and sucrose by using Fehlings solution
- Expt. 4:** Determination of iodine value of oil or fat
- Expt. 5:** Determination of saponification value of oil or fat
- Expt. 6:** Estimation of vitamin 'C' in lime juice.
- Expt. 7:** Estimation of Nitro group
- Expt. 8:** Estimation of formaldehyde
- Expt. 9:** Isolation of caffeine from tea/coffee sample.



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## Question Paper Pattern for Practical Courses

**(A) SEE (LAB) Model Question Paper**

**22CH4L1: ORGANIC ESTIMATIONS**

**Offered to: M.Sc. (Organic Chemistry)**

**Max. Marks: 70**

**Max. Time: 6 Hours**

**Pass. Min: 28**

**Evaluation Procedure**

**70 Marks**

<b>I</b>	Experiments & Execution	<b>50</b>	<b>Marks</b>
<b>II</b>	Viva	<b>10</b>	<b>Marks</b>
<b>III</b>	Record	<b>10</b>	<b>Marks</b>

**(B) CONTINUOUS ASSESMENT:**

**30MARKS**

**TOTAL: (A)+(B) =**

**100 MARKS**