Reg.				

No.:

G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.



UG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.

(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: B.Sc., CHEMISTRY

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE	
137	IV PART-IV	SEC - 6	HOSCHASE	INSTRUMENTAL METHODS OF	
10			U23CH4S5	CHEMICAL ANALYSIS	

Date & Session: 06.05.2025/AN Time: 2 hours Maximum: 50 Marks

Bloom's K-level	Q. No.	SECTION – A (5 X 10= 50 Marks) Answer ALL Questions choosing either (a) or (b).
K5	1	Explain with example 1) moles 2) millimole 3) milliequivalent 4) normality.
		(OR)
		Explain F-test and Significant figures with examples.
K4	2.	List the components of an Atomic Absorption Spectrophotometer, and how do they work together?
		(OR)
		Examine how different methods of background correction in AAS
		influence the detection limits and sensitivity of the instrument.
K5	3.	Explain the principle and instrumentation of UV visible spectroscopy.
		(OR)
		Explain the sampling technic and instrumentation of double beam IR spectrometer with a neat diagram
K5	4.	Evaluate how the instrumentation of TGA, as represented in the block diagram, influences the accuracy and precision of thermal analysis (OR)
		Evaluate how the principle of polarography influences the accuracy of electrochemical analysis in different experimental setups.
K4	5.	How does the principle of HPLC explain variations in retention time when
		different elution techniques are applied?
		(OR)
		Analyze how the principle of thin layer chromatography (TLC) helps in the
		separation of different compounds.

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PROGRAMME AND BRANCH: B.Sc., CHEMISTRY

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
137	IV PART-IV	SEC - 6	U23CH4S5	INSTRUMENTAL METHODS OF
14			U23CH483	CHEMICAL ANALYSIS

Date & Session: 06.05.2025/AN Time: 2 hours Maximum: 50 Marks

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		<u> </u>