Roll	No		
M.S	c. (Ph	Y – 3242 harmaceutical Chemistry) (Second Semester) EXAMINA June 2021	ΓΙΟΝ,
		Paper – 202	
	5	SPECTROANALYTICAL METHODS OF ANALYSIS-II	
		Time : Three Hours	
		Marks: 85 Minimum Pass Mark tempt all questions.	ks : 29
		Unit-I	
1.	Give a brief account of theory, instrumentation and application of Atomi		
	Abso	orption spectroscopy.	17
		Unit-II	
2.	Describe theory of infrared spectroscopy and derive the expression for wave		
	numl	ber. Explain qualitative application.	17
		Unit-III	
3.	Discuss the role of the following in structure elucidation—		17
	(i)	Chemical shift	
	(ii)	Spin-spin coupling.	
		Unit-IV	
4.	Write short notes on the following—		17
	(i)	3D – NMR experiment.	
	(ii)	2D – NMR spectroscopy.	
		Unit-V	
5.	Give a brief account of mass analyser. What is nitrogen rule? Describe general		
	fragmentation modes.		17