Roll	No	
KUII	INO.	

Y - 3134(A)

M.Sc. (Fourth Semester) (SPECIAL) EXAMINATION, August 2021 (SECOND CHANCE)

CHEMISTRY

Paper-MCH-504

Application of Spectroscopy (Organic Chemistry)

	11me : 1 nree Flours	
Mas	ximum Marks : 85	Minimum Pass Marks : 29
No	te: Attempt all questions.	
1.	Discuss ultraviolet bands for following compound	s: 17
	(a) Aromatic hydrocarbon	
	(b) Unsaturated carbonyl compounds.	
2.	Write notes on:	17
	(i) Finger Print Region	
((ii) Effect of H-bonding on vibrational frequenci-	es.
3.	Discuss the following:	17
	(a) Spin-spin interaction	
((b) Karplus curve variation of coupling constant.	
4.	Explain the following techniques:	17
	(a) NOESY	
((b) DEPT.	
5.	Write notes on (any two):	17
	(a) Retro Diel's Alder Reaction	
	(b) Nitrogen Rule	
	(c) Hemolytic and Heterolytic cleavage.	