Roll No.:	
[Total No.	of Printed Pages: 1

Total No. of Questions: 5]

W-3264

M.Sc. (Fourth Semester) Examination, June-2020 CHEMISTRY

Paper - MCH-504

Application of Spectroscopy (Organic Chemistry)

Time: Three Hours

Maximum Marks: 85

Minimum Pass Marks: 29

Note: Attempt **all** questions.

Unit-I			
Q.1.	Write various transition, involved in U.V visible spectroscopy.	17	
	Unit-II		
Q.2.	Write various molecular vibrations, involved in I.R. spectroscopy.	17	
Unit-III			
Q.3.	Explain "Shielding mechanism" in NMR spectroscopy.	17	
Unit-IV			
Q.4.	Discuss general theory of carbon-13 NMR spectroscopy.	17	
	Unit-V		
Q.5.	What is MC-Lafferty rearrangement? Explain its mechanism with examples.	17	

BM20-503 W-3264