

Time: 3 Hrs

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Code No. 13323/PCI

Max. Marks: 75

FACULTY OF PHARMACY

Subject: Advanced Spectral Analysis

M. Pharmacy (Pharmaceutical Chemistry) II-Semester (PCI) (Main) Examination, August 2019

	Note: Answer any five questions. All questions carry equal marks.	
1	 (a) Discuss Woodward Fieser rule with examples ? Discuss the calculation of for cyclic dienes and unsaturated carbonyl compnds with examples (b) Discuss how IR spectra is useful in structural elucidation of organic compnds with any fr structures 	λ max (8+7)
2	Write a detailed accnt on : (a) 1-D NMR (b) INADEQUATE	(8+7)
3	(a) Discuss Mc Lafferty rearrangement and Ring rule.(b) Give the mass fragmentation rule for amine, carbonyl compnds and halides.	(7+8)
4	Explain the Principle, instrumentation and applications of following (a) HPTLC (b) GC-MS	(8+7)
5	Give the instrumentation and applications of following : (a) DTA (b) DSC	(8+7)
6	(a) DTA (b) DSC Write a short note on : (a) HPTLC (b) Super critical fluid chromatography	(8+7)
7	Explain the Principle and applications of following : (a) COSY (b) HECTOR	(8+7)
8	(a) COSY Write a short note on : (a) ELISA (b) Bio assay of digitalis	(8+7)
