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FACULTY OF PHARMACY

M. Pharmacy (Pharmaceutical Chemistry) I-Semester (PCI) (Main & Backlog) Examination, February 2020

Subject: Advanced Organic Chemistry-I		
Т	ime: 3 Hrs	Max. Marks: 75
Note: Answer any Five questions. All questions carry equal marks.		
1	 a) Explain the structure and stability of carbocations and carbanions. b) Discuss SN² reactions with mechanism and stereo chemistry. 	8M 7M
2	 a) Enlist the types of rearrangement reactions and discuss the mechan two. 	isms of any
	b) Explain the mechanism of E1 elimination with examples.	(9+6)
3	 Discuss the mechanism and applications of any three named reactions a) Sandmayer reaction b) Sharpless Epoxidation c) Michael reaction d) Mannich reaction 	15M
4	Write abt reaction mechanism and synthetic applications ofa) Mitsunobu reaction and Mannich reaction.b) Baeyer-Villiger oxidation and Doebner-Miller Reaction.	(8+7)
5	 Write the preparation and synthetic applications of any three of the follow a) Diazomethane b) Aluminium isopropoxide c) Dicyclohexyl carbodimide d) Wilkinsons reagent 	wing (15)
6	a) Give an accnt of protection of Amine and Carboxyl grps and the importance.b) Give the reaction and explain mechanism of Knorr pyrazole synthesis combes quinoline synthesis.	ir synthetic s and (5+10)
7	tline the synthesis of following a) Celecoxib b) Ketoconazole c) Chloroquine	(15M)
8	a) Explain C-C disconnection of alcohols and carbonyl compnds.	(0, -)

b) Discuss the retro synthetic strategies for Five and six membered ring systems. (8+7)
