I B. Pharmacy I Semester Supplementary Examinations, February - 2019 PHARMACEUTICAL ORGANIC CHEMISTRY-I

Time: 3 hours Max. Marks: 70

		Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answering the question in Part-A is Compulsory 3. Answer any FOUR Questions from Part-B	
		<u>PART -A</u>	
1.	a)	What is a covalent bond? Give examples.	(2M)
	b)	Write tests for identification of unsaturation in organic compounds.	(2M)
	c)	What is Lucas test?	(2M)
	d)	Write structures of (i) ethyl isopropylether (ii) t-butanol	(2M)
	e)	What is a chiral carbon? Give example.	(2M)
	f)	Why -C≡CH is acidic?	(2M)
	g)	What are geometric isomers?	(2M)
		PART -B	
2.		Write in detail on	(14M)
		a) Inductive effect b) Resonance	
3.	a)	What are carbocations? Write methods used for their preparation.	(6M)
	b)	Explain the factors influencing stability and reactivity of carbocations.	(8M)
4.	a)	Write in detail on Markovnikov's rule.	(6M)
	b)	Discuss the reactivity of butadiene.	(8M)
5.	a)	Write methods used for preparation of alkyl halides.	(8M)
	b)	Write the mechanisms and significance of E1 reactions.	(6M)
6.	a)	Classify alcohols with examples. Write a note on industrial production of ethanol.	(8M)
	b)	Explain the mechanism and synthetic applications of Williamson's synthesis.	(6M)
7.	a)	Differentiate optical and geometric isomers. Add a note on relative configuration.	(6M)
	b)	Enumerate methods used for resolution of a racemic mixture.	(8M)