Ref. No.: Ex/BP202T/2022

B. Pharm. 1st Year 2nd Semester Examination, 2022-23 Subject: Pharmaceutical Organic Chemistry I (Theory) Sub Code: BP202T

Full Marks: 75 Time: 3 hours

Answer any five questions taking at least one from each group but not more than two

Group A			
1.	a) Conformation of alkane	[7]	
	b) Write a note on SP ³ hybridization of Carbon.	[8]	
2.	a) What happened when Chlorine react with methane in presence of UV light at high		
	temperature. Explain with proper mechanism.	[8]	
	b) What happened when Br ₂ react with ethylene in presence of an inert so	olvent. Explain	
	with proper mechanism.	[7]	
3.	Answer any three of the following questions.		
	a) Draw the orbital structure of the following compounds.	[5]	
	i) Ethylene, ii) Acetylene, iii) CH ₂ =NH, iv) HCN, v) HCHO		
	b) Cracking	[5]	
	c) Corey-House alkane synthesis	[5]	
	d) Peroxide effect	[5]	
Group B			
4.	Discuss the reactions of carboxylic acids with proper examples.	[15]	
5. a) Write in detail about the qualitative tests of carboxylic acids, carboxylic acid esters			
	carboxylic acid amides.	[10]	
		[~~]	
	b) How do you prepare	$[2.5 \times 2 = 5]$	
	i) Iodobenzene to phenyl acetic acid		
	ii) Acetic acid to Propionic acid		
Group C			
Group C			
6.	Write a short note on nomenclature of monohydric alcohols.	[15]	
7.	a) How do you prepare ethanol and methanol by specific methods?	- •	
	b) Discuss the chemical properties of monohydric alcohols.	[8+7=15]	
8.	a) Discuss the syntheses of ethylene glycol with chemical equations.	_	
	b) Write on different physical and chemical properties of glycerol.	[7 + 8 = 15]	