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R16 SET - 1 Code No: PHR16116

I B. Pharmacy I Semester Supplementary Examinations, Jan/Feb - 2018 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 sp2 hybridization?	(2M)	
	b)	What is a conjugated double bond?	(2M)	
	c)	-OH group is polar. Why?	(2M)	
	d)	Write in brief on iodoform test.	(2M)	
	e)	Write short notes on ketoenol tautomerism in ethylacetoacetate.	(2M)	
	f)	Differentiate mesomer and diastereomer.	(2M)	
	g)	What are free radicals?	(2M)	
	PART –B			
2.	a)	What are carbocations? Write methods of preparation of carbocations.	(7M)	
	b)	Write in detail on rearrangements observed in carbocations and their implications.	(7M)	
3.	a)	Write three methods of preparation and reactions of alkenes.	(8M)	
	b)	Write short notes on stability of butadiene.	(6M)	
4.	a)	Differentiate SN1 and SN2 reactions. Add a note on factors affecting SN1 reactions.	(8M)	
	b)	Write short notes on Saytzeff's rule.	(6M)	
5.	a)	Write reactions of alcohols.	(8M)	
	b)	-OH group is considered as a 'bad' leaving group, why? How can we activate it?	(6M)	
6.	a)	What is stereoisomerism? Discuss the importance of stereoisomerism in pharmaceutical chemistry.	(6M)	
	b)	Write in detail on relative configuration with examples.	(8M)	
7.	Но	w do you achieve the following synthetic conversions?		
	a)	Acetylene to acetaldehyde.	(5M)	
	b)	Cyclohexene to adipic acid.	(5M)	
	c)	Phenol to anisole.	(4M)	