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SET - 1

I B. Pharmacy I Semester Supplementary Examinations, February - 2020 PHARMACEUTICAL ORGANIC CHEMISTRY-I

Ti	Time: 3 hours PHARMACEUTICAL ORGANIC CHEMISTRY-I Max. Marks: 75			
Answer any FIVE Questions All Questions carry Equal Marks				
1.	a)	Write methods used for preparation of free radicals.	(9M)	
	b)	What are nucleophiles? Write in brief on their role in organic reactions.	(6M)	
2.	a)	Write factors influencing shape of organic molecule. Write its significance in pharmaceutical chemistry.	(8M)	
	b)	Write a note on reactivity of carbocations.	(7M)	
3.	a)	Discuss the conformational isomerism observed in cyclohexane.	(8M)	
	b)	Write in brief on free radical substitution reactions on alkanes.	(7M)	
4.		rite the reaction mechanism and synthetic applications of Birch reduction (b) Friedel crafts acylation reaction (c) Ozonolysis	(15M)	
5.	a)	Write in detail on ortho/para directing groups in electrophilic aromatic substitution reactions of monosubstituted benzene.	(8M)	
	b)	Write two methods used for preparation of anthracene? Add a note on its oxidative reactions.	(7M)	
6.	a)	Compare SN ¹ and SN ² reactions. Write the role of solvent on SN reactions.	(9M)	
	b)	Write in detail on Markovnikov's rule.	(6M)	
7.	Но	w do you achieve the following synthetic reactions? (a) Aniline to p-bromoaniline (b) Benzene to butylbenzene (c) Ethylene to polyethylene	(15M)	
8.	Wr	rite reasons for the following: (a) Benzene shows low reactivity towards nucleophilic substitution reactions (b) Hydration of propyne gives acetone (c) Hydroxy is not a good leaving group	(15M)	

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