

x 10 = 20

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Roll No: 201060050000

#### **BPHARM**

(SEMINITATION 2021 ==		(SEM IV)	THEORY	EXAMINATION 2021-22
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PHARMACEUTICAL	ORGANIC	CHEMISTRY III – THEORY

### Time: 3 Hours

Total Marks: 75

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

### SECTION A

1.	Attempt all questions in brief.	$10 \ge 2 = 20$			
2.	Define enantiomers with examples.				
b.	Define meso compounds with examples.				
С.	Distinguish between E and Z isomers with examples.				
d.	Discuss sequence rules.				
e.	Compare the reactivity and aromaticity of pyrrole, furan and thiophene.				
£.	What is the reduction product of furan? Give its reaction.				
g.	Discuss the structure and pharmaceutical uses of Oxazole.				
h.	Write the pharmaceutical uses of quinoline and isoquinoline.				
j.	Write the synthetic importance of Birch reduction	0			
j.	Discuss the Claisen Schmidt condensation faction.	CL			

# 2. Attempt any two parts of the following:

	a. Outline the various conformations of cyclohexane in detail.			
b.		Classify heterocyclic compounds. Discuss the nomenclature of heterocyclic compounds with suitable examples.		
	C.	Write down the synthesis, reactions and medicinal uses of Inidazole and Thiazole.		

**ČTION B** 

## SECTION

rts of the following:	$5 \ge 7 = 35$			
Describe DL system of nomenclature of optical isomers with suitable example.				
ism in biopenyl compounds and its	-			
Write down the synthesis, reactions, and medicinal uses of Pyrrole and Thiophene. Describe in detail about the stereospecific and stereoselective reactions with examples.				
Discuss in detail about the synthesis and pharmaceutical uses of pyrimidine and purin				
-Discuss the reaction and mechanism of Metal hydride reduction.				

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