DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – Summer 2023

Date: 10/07/2023

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Course:		B. Pharmacy		
			Sem: IV	
Subject Name:		Pharmaceutical Organic Chemistry-III	Subject Code: BP401T	
Max I	Marks:	75	Duration:	3 Hr.
Instructions:				
1. All questions are compulsory				
2. Draw diagrams / figures wherever necessary				
3.	Figures to a	right indicate full marks		
Q. 1.	Objective	Type Questions (Answer all the questio	ns)	(10 x 2) = 20
i)		tructure and medicinal uses of Pyridine.		()
ii)		akin reaction?		
iii)		medicinal uses of Thiazole and Imidazole.		
iv)		tructure of Thiophene and Oxazole.		
v)		chiral and achiral molecules?		
vi)		ote on Metal hydride reduction.		
vii)		opisomerism with example.		
viii)		otical activity?		
ix)	-	tructure and medicinal uses of Acridine.		
x)		d explain Mesocompound.		
Q. 2.		swers (Answer 2 out of 3)		$(2 \times 10) = 20$
i) V	Write the EA	AS reactions, synthesis and medicinal uses	of Pyrrole and Furan.	
ii) I	Explain in d	etail about confirmations of n-Butane and	Cyclohexane.	
iii) l	Define racer	nic modification. Describe the methods of	resolution of racemic mixture.	
Q. 3.	Short Ans	swers (Answer 7 out of 9)		(7 x 5) = 35
i)	Explain th	e terms with suitable example		
	a) Diaste	ereoisomerism b) Enantiomerism		
ii)	Outline the	e methods of synthesis of Indole.		
iii)	Give the re	eaction and mechanism involved in Beckm	ann's rearrangement.	
iv)	Write a no	ote on basicity of pyridine.		
V)	Describe t	he Birch reduction reaction.		
vi)	Write a no	ote on R and S system of configuration.		
vii)	Give the r	eaction and mechanism of Oppenauer oxid	ation reaction.	
viii)		detail asymmetric synthesis.		
ix)	Give a bri	ef account of stereospecific and stereoseled	ctive reactions.	

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