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Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER- 4 EXAMINATION – WINTER -2019

Subject Code		2-2019
Subject Name: Pharmaceutical Organic Chemistry-IIITime: 02:30 PM TO 05:30 PMTotal Marks: 80Instructions:1. Attempt any five questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.		
· · · · · · · · · · · · · · · · · · ·	 a) What is racemic modification? Enlist different methods of resolution of racemic modifications and explain any one method in detail. b) Differentiate Enantiomers & diastereomers. c) Give general method of preparation & chemical reaction of Pyrrole. 	06 05 05
(a) Give the structure and numbering of following: i) Furan ii) Oxazole iii) Pyridine iv) Thiazole v) Isoquinoline vi) Indole b) Give two methods of synthesis and two reactions of any two of the following heterocycles: 1) Furan 2) Thiophene c) Give synthesis, reactions and medicinal uses of Oxazole 	06 05 05
(How will you synthesize Quinoline and Isoquinoline? Write reaction mechanism of it. Give synthesis and medicinal uses of Pyrimidine and Purine, Give synthesis, reactions and medicinal uses of Acridine 	06 05 05
Q.4 (What is configuration and conformation? Explain with suitable examples. Write in brief about Atropisomerism. Assign R & S configuration for following (a) H OH (b) C H (c) H OCH₃ HOCH₂ CO₂H 	06 05
(Give synthesis, reactions and medicinal uses of Indole	05
Q.5 (a		06 05
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Q. 6 (a (t (d) Write in brief conformational analysis of n-Butane	06 05 05
Q.7 (a	 Electrophilic substitution takes place at 2-position in Pyrrole. Pyrrole is more aromatic than furan. Pyridine is more basic than pyrrole. 	06
(b (c		05 05
