Seat No.: _____ Enrolment No. _____

Subject Code: BP301TP

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER- 3 EXAMINATION - WINTER -2019

Date: 14-11-2019

•	: 10	lame: Pharmaceutical Organic Chemistry II :30AM TO 01:30PM Total Marks: 80				
1. 2. 3.	Atte Mak	mpt any five questions. te suitable assumptions wherever necessary. res to the right indicate full marks.				
Q.1	(a) (b) (c)	Write down the methods of preparation and uses of benzoic acid. Halogens are deactivators but <i>o</i> , <i>p</i> - directors. Justify with suitable examples. Write the principle and significance of Iodine number.				
Q.2	(a) (b) (c)	Write a short note Fries Rearrangement and Carbylamines reaction. Write the mechanism Friedal Craft alkylation with its limitations. Enumerate the influence of substituents on acidity of Aromatic acids.				
Q.3	(a)	Convert these followings:	06			
		 I. Phenol to Phenyl acetic acid II. p- cresol to p-NO₂ benzyl tolyl ether III. o- cresol to N- nitroso 2- methyl Phenol 				
	(b) (c)	Describe in detail about Bayer's strain theory with its limitation Write an informative note on Huckel's rule of aromaticity.	05 05			
Q.4	(a)	Comment these followings: I. Why Benzene undergoes Substitution reaction instead of addition reaction? Justify II. Why reactivity of NO ₂ benzene is slow in comparison to Benzene.	06			
	(b)	Why animal fats are solids and Vegetable oils are Liquids? Justify with	05			
	(c)	Describe three different reactions of fatty acids with examples.	05			
Q.5	(a)	What happens when Anthracene reacts with these following? Write the reaction. I. Maleic anhydride II. Na/C ₂ H ₅ OH III. Na ₂ Cr ₂ O ₇				
	(b)	Write down any five methods of Preparation of Phenol	05			
	(c)	Write down methods of Preparation of Naphthalene.	05			
Q. 6	(a)	Convert these followings: I. Chloro benzene to Benzene II. Styrene to 2-Phenyl Ethanol III. Benzene to <i>m</i> - nitro benzaldehyde	06			
	(b)	Write the synthesis and utility of Diazonium salts.	05			
	(c)	What do you mean by Rancidity? Explain in detail with example.	05			

Q.		Describe the various qualitative tests of phenol.	06
	(b)	Write down the structure and uses of these followings:	05
		a) DDT b) Saccharin c) Diphenylmethane d) Phenanthrene e) Cresol	
	(c)	Write a short note on Sachse Mohr's theory.	05
