Seat No.: Enr	olment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm SEMESTER-III• EXAMINATION - SUMMER -2020

•		Code: BP301TP Date: 26-10-2020	
_	e: 2:3 ections Atte	empt any five questions.	
3.		ke suitable assumptions wherever necessary. Ires to the right indicate full marks.	
Q.1	(a)	What is aromaticity? Enlist the electrophilic aromatic substitution reaction with example.	06
	(b) (c)	Give the Fridal craft reaction of alkylation and acylation in Benzene Write a short note on Huckel's rule.	05 05
Q.2	(a)	Give the difference between 1) Animal fat vs Plant fat 2) Fats vs Waxes	06
	(b) (c)	Write a short note on saponification value and acid value. Write structure and uses of following, a. Resorcinol b. Napthalene c. Diphenyl Methane d. Cresols e. DDT	05 05
Q.3	(a)	What are Polynuclear aromatic compound and discuss the reaction of naphthalene.	06
	(b) (c)	Explain Haworth synthesis of Anthracene. Write structure and uses of following, 1) Sccharin 2) BHC 3) Phenanthrene 4) Phenol 5) Naphthols	05 05
Q.4	(a)	Give the three preparation of aromatic amines and aromatic acids.	06
	(b) (c)	Write a short note on basicity of aromatic Amines. What are synthetic uses of diazonium salts?	05 05
Q.5	(a)	What are phenol? How they differ from alcohols? Write a note on Reimertiemann reaction.	06
	(b) (c)	Explain the Bayer's strain theory and give the limitation of it. Write a note on Strainless theory and give factor affecting stability of conformation.	05 05
Q. 6	(a)	Classify aromatic acids and give reaction of benzoic acid.	06
	(b) (c)	Discuss the mechanism of cumene process for phenol synthesis. Write three reaction cyclopropane and cyclobutane.	05 05
Q.7	(a)	How will you convert phenol in to: 1) Salicylic acid 2) Anisole 3) Benzene 4) Phenyl acetate 5) Phenelote	06
	(b) (c)	Explain effect of substitutes on acidity of Aromatic acids. Discuss Qualitative test for Phenol.	05 05
