Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY B.Ph. - SEMESTER-3 EXAMINATION – SUMMER -2023

Subj Subj Time Instru 1.	ect C ect N e: 10: ctions Atte	Code: BP301TP Name: Pharmaceutical Organic Chemistry II :30am to 01:30pm s: empt any five questions.	Date:04/08/2023 Total Marks: 80	
2. 3.	Mar Figu	res to the right indicate full marks.		
Q.1	(a)	What is aromaticity? Write down characteristic in aromatic	ic benzene. Write	06
	(b) (c)	Write a note on Huckel's rule of aromaticity.Explain briefly about electrophilic substitution reaction of benzene.		
Q.2	(a) (b) (c)	Describe the various qualitative tests of phenol. Write a note on reaction of Phenanthrene. Detail note on Cannizzaro reaction.		06 05 05
Q.3	(a)	Explant Haworth synthesis for anthracene. Explain chemical reaction involve in anthracene.		06
	(b) (c)	Explain: Bayer's strain theory and give the limitation of it.0Write structure and uses of diphenyl methane and naphthalene.0		05 05
Q.4	(a) (b) (c)	Write notes on acidity and effect of substituents of phenol. Explain: Sachse Mohr's theory. Notes on structure and stability of benzene.		06 05 05
Q.5	(a) (b) (c)	Write a short note Fries Rearrangement and Carbylamines reaction. Write a note on diazotization reaction. Write down any five methods of Preparation of Phenol.		06 05 05
Q. 6	(a)	Explain hydrogenation of oil with diagram. Discuss signified of acid value and saponification value.	ficance and principal	06
	(b) (c)	Write down structure and uses of DDT, BHC and Chlorar Preparation of aromatic amine and aromatic acids.	nine.	05 05
Q.7	(a)	How will you convert phenol in to (a) Benzene (b) Phenyl acetate (c) Anisole (d) Phenetole (e) Salicylaldehyde (f) P- Hydroxyazobenzene.		
	(b) (c)	Write down reaction involve in Cyclopropane and cyclob Notes on inductive group and its directing effect in monos	utane. substituated benzene.	05 05
