(c)

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER- 3 EXAMINATION - SUMMER -2019

Subject Name: Pharmaceutical Organic Chemistry II			Date: 28-05-201	9
			Total Marks: 80)
2.	Mal	empt any five questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.		
Q.1	(a) (b) (c)	Explain molecular orbital structure and resonance energy of be Explain effect of substituent on acidity of benzoic acid. Notes on Sachse Mohr's theory.	enzene.	06 05 05
Q.2	(a) (b) (c)	Why benzene undergoes electrophilic substitution reaction? E halogenation reaction of benzene with mechanism. Write down important reaction involve in benzoic acid in deta Discuss about reaction of cyclopropane and cyclobutane.	-	06 05 05
Q.3	(a) (b) (c)	Notes on Haworth synthesis for naphthalene and Anthracene. Discuss about Coulson and Moffitts modification of cycloalka Write down structure and medicinal use of Anthracene, dipher triphenylmethane derivatives.		06 05 05
Q.4	(a) (b) (c)	Write a notes on acidicity and effect of substituents of phenol. Discuss the molecular orbital structure of naphthalene? What happen when (a) Naphthalene is treated with concentrated sulphuric acid (b) Anthracene is treated with sodium dichromate and sulphuric acid (concentrated).	d at 165°C.	06 05 05
Q.5	(a) (b) (c)	Write down significance and principle involve in determination (a) RM value (b) Acetyl value (c) Ester value (d) Iodine value Notes on synthetic use of aryl diazonium salts. Explain (a) Why phenol is more acidic than ethyl alcohol? (b) Why o-nitrophenol is steam volatile whereas p-nitrophenol		06 05 05
Q. 6	(a)	How will you synthesise the following compounds from benze (a) Benzene hexachloride (b) Ethylbenzene (c) Isopropylbenzene (d) Cyclohexane	ene	06
	(b) (c)	Write down structure and use of following compounds (a) DDT (b) Saccharin (c) Cresol Notes on inductive group and its directing effect in monosubst	tituated benzene.	05 05
Q.7	(a) (b)	Explain hydrogenation of oil with diagram. Discuss significan of acid value and saponification value. Notes on a Fridel crafts alkylation and acylation of benzene		06 05

Discuss Bayer's strain theory with suitable examples.

05