

Seat No.: _____ Enrolment No.

		GUJARAT TECHNOLOGICAL UNIV. B.PHARM – SEMESTER – 3- EXAMINATION – WIN		
Subject Code: BP301TP Subject Name: Pharmaceutical Organic Chemistry II Time: 10:30 AM TO 01:30 PM Instructions:			Date: 30/11/2018 Total Marks: 80	
HISU	1. 2.	Attempt any five questions. Make Suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	How alcohols differ from phenol? Explain structure of ben	zene based on	06
	(b) (c)	chemical properties. Explain this term "Aqueous solution of phenol is more acid Notes on	dic than alcohol "	05 05
		a) Aromatic amine is less basic than aliphatic amb) Cyclopropane is more prone to undergo ring of cyclobutane.		
Q.2	(a)	Explain hydrogenation of oil with diagram. Discuss significance and principal of acid value and saponification value.		
	(b)	What is the proof for the presence of two fused rings in naphthalene? Explain about Haworth synthesis.		
	(c)	Notes on inductive group and its directing effect in monosubstituated benzene. 0.		
Q.3	(a)	Write down sulphonation, Friedel-Crafts acylation, reduction and oxidation reaction of naphthalene. Explain effect of substituents on acidity of phenol. Notes on structure and stability of benzene. 0.00		
	(b) (c)			
Q.4	(a) (b)	Discuss Baeyer strain theory using concept of angle strain. Limitation of		06 05
	(c)	Baeyer strain theory. Notes on a) Why is chair conformation of cyclohexane mo Form b) Theory of strainless rings.	re stable than boat	05
Q.5	(a)	Explant Haworth synthesis for anthracene. Explain chemic anthracene.	al reaction involve in	06
	(b) (c)	Write down structure and uses of DDT, BHC and Chloran Explain briefly about electrophilic substitution reaction of		05 05
Q. 6	(a)	How will you convert phenol in to (a) Benzene (b) Phenyl (d) Phenetole (e) Salicylaldehyde (f) P- Hydroxyazobenze		06
	(b) (c)	Explain effect of substituents on acidity of Aromatic acids. Write down structure and uses of phenol, cresol and resort		05 05
Q.7	(a)	What is aromaticity? Write down characteristic in aromatic benzene. Write down method of preparation of benzene.		
	(b) (c)	How can you prepare phenol by Dow and Cumene process Write down reaction involve in Cyclopropane and cyclobu		05 05