Seat No.: _____

Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM – SEMESTER – 2- EXAMINATION –WINTER - 2018

Subject Code:BP202TPDate: 11/12/2018			8
Tim		Name: Pharmaceutical Organic Chemistry I 30 PM TO 05:30 PM Total Marks: 80)
mstr	1. 2.	Attempt any five questions. Make Suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Give the structure and uses of the following(1) Paraldehyde(2) Salicylic acid(3) Cetosteryl alcohol(4) Vanilin(5) Chloral hydrate(6) Ethylenediamine	06
	(b) (c)	Explain in detail about Grignard reaction for the synthesis of Alkanes and Alcohols. Write a note on Aldol condensation.	05 05
Q.2	(a) (b) (c)	What is isomer? Classify structural isomer with examples. Give three methods for synthesis of alkenes. Mention any three Nucleophilic addition reactions for aldehydes.	06 05 05
Q.3	(a) (b) (c)	Write a note on Benzoin condensation & Perkin condensation, Write the mechanism and limitations of Friedel-Crafts acylation of Ketones. Give the uses of paraffin. Discuss about stability of conjugated dienes.	06 05 05
Q.4	(a) (b) (c)	Give general method for preparation and reaction of aliphatic amines. Write short notes on SN2 reaction in detail. Differentiate between E2 and E1 mechanism of elimination with example.	06 05 05
Q.5	(a) (b) (c)	Differentiate Markownikoff's addition and Anti-markownikoff's addition to alkene. Describe the factors affecting the E1 and E2 reaction. Write name of qualitative tests for identification of carboxylic acid, ester, amide, alcohol and aliphatic amine.	06 05 05
Q. 6	(a)	 Comment: (1) Order for basicity of amine is 2°>1°>3° in aqueous solution. (2) Carboxylic acid is less stable as compare to its anion form. (3) Bromination of alkane is more selective then chlorination. 	06
	(b) (c)	 State the Saytzeff rule. What is pyrolysis? Give general reaction of pyrolysis for alkane. Write the structure and IUPAC name of followings: (1) Neopentane (2) Isopentane (3) Allylbromide (4) Isopropanol (5) Vinyl chloride 	05 05
Q.7	(a) (b) (c)	Explain cannizzaro and cross cannizzaro reaction with mechanism. Write note on Diel-Alder reaction. Describe ozonolysis of alkene in detail.	06 05 05
