Seat No.:	Enrolment No.

**Subject Code: BP202TP** 

## GUJARAT TECHNOLOGICAL UNIVERSITY

**B.Ph.- SEMESTER-II • EXAMINATION – SUMMER -2021** 

Time Instructure 1. 2.	: 10: ctions Atte Mak	Jame: Pharmaceutical Organic Chemistry-I 30AM to 01:30PM Total Marks: 80 compt any five questions. The suitable assumptions wherever necessary. The suitable indicate full marks.	
Q.1	(a) (b) (c)	Give the structure and uses of (i) Formaldehyde (ii) Paraldehyde (iii) Chloral hydrate (iv) Vaniline (v) Cinnamaldehyde (vi) Hexamine How does structure effect the basicity of amines? How will you separate 1°, 2° and 3° amines by Hinsburg method? Give equations also.	06 05 05
Q.2	(a) (b) (c)	How would you get  (1) Benzoic acid from toluene  (2) Benzyl alcohol from benzoic acid  (3) Benzene from benzoic acid.  Give the general methods for the preparation of aromatic amines.  Explain mechanism of (i) Cannizaro reaction (ii) Perkin condensation.	06 05 05
Q.3	(a) (b) (c)	Discuss classification of alcohols. What happens when they are dehydrogenated catalytically?  Explain Aldol and Crossed aldol condensation.  Give the methods of preparation of carbonyl compounds.	06 05 05
Q.4	(a) (b) (c)	Discuss SN <sup>1</sup> and SN <sup>2</sup> reaction.  Define saytzeff's rule with one example.  Write down the mechanism of Wurtz reaction.	06 05 05
Q.5	(a) (b) (c)	Give the mechanism of $E_1$ and $E_2$ reaction. Describe two methods of preparation and two chemical properties of alcohols. Explain diels-alder reaction.	06 05 05
Q. 6	(a) (b)	Give methods for the preparation of Alkanes.  Differentiate markownikoff's and anti- markownikoff's rules with suitable examples.  Note on hybridization in alkanes.	06 05 05
Q.7	(c) (a) (b) (c)	Give the structure and IUPAC name of (i) Formic acid (ii) Acetone (iii) Acetylene (iv) Ethylamine (v) Dimethylether (vi) Acetaldehyde. Explain classification of organic compounds with example. Give in detail on structural isomerisms in organic compounds.	05 06 05 05

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Date: 27/08/2021