Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM – SEMESTER –2 EXAMINATION – SUMMER-2024

St	ubject	t Cod	le: BP202TP	Date: 11/06/2024		
Sı	ubject	t Nan	ne: Pharmaceutical C	Organic Chemistry I		
T	ime: 1	10.30	a.m. to 1.30 p.m.	Total Marks: 80		
In	structio					
		_	t any five questions. uitable assumptions where	ver necessarv		
			to the right indicate full m			
Q-1	a.	Wha	at are elimination reactions	s? Explain the factors affecting E2 reaction.	6	
	b.	Write a note on Cannizzaro reaction.				
	c.	Explain the electrophilic addition to 1,3-butadiene.				
Q-2	a.	What kind of addition takes place, when HBr is added in alkene in presence of peroxide. Explain the mechanism for the same.				
	b.	Explain the effect of electron withdrawing groups and electron releasing groups on basicity of aliphatic amines with suitable examples.				
	c.	Write a note on methods of preparation for carboxylic acids.				
Q-3	a.	Writ reage I.	<u> </u>	e for following conversions with appropriate	6	
		II.	Benzoic acid to ethyl b	penzoate		
		III.	Propanol to propanal	· VIIIZOMIC		
	ı			hannel hanne de hanneline () ablanchede a l	5	
	b.	·				
	c.	Write a note on electrophilic addition to alkenes.				
Q-4	a. b.	-	lain the qualitative tests of w the structure of	aldehydes and ketones.	6 5	
		I.	2-methyl-1-butene	iv. 2-aminopentane		
		II.	Acetic acid	v. Ethyl pentanoate		
		III.	2,3-dimethylpentanal			
	c.	Writ	te a note on SN ₂ reaction.		5	
Q-5	a.	Com i.	nment on followings CH ₃ CHO is more reactive Why?	ve than CH ₃ COCH ₃ towards reaction with HCN.	6	
		ii.	Chloroacetic acid is mor	re acidic than acetic acid. Why?		
		iii.	Which type of isomerism Acetone and Propanal 1-Butanol and 2-butanol	m is shown by the following pair of compounds.		

Write a note on methods of preparation of alcohols. 5 b. Give the structure and uses of trichloroethylene, dichloromethane and 5 c. iodoform. Write the IUPAC name of the following compounds. 6 **Q-6** a. I. II. III. V. VI. IV. 5 b. Write a note on hybridization present in ethyne. Write a note on factors affecting SN1 reaction. 5 c. Q-7 Write a note on aldol condensation reaction. 6 a. Write a note on preparation of aldehydes. 5 b. write a note on qualitative test for carboxylic acid, amides and esters. 5 c.
