Enrollment No:	Exam Seat No:
	C.U. SHAH UNIVERSITY
	Winter Examination 2022

Subject Name: Pharmaceutical Organic Chemistry I - Theory Subject Code: BP202T Branch: B. Pharm

Semester: 2 Date: 20/09/2022 Time: 11:00 To 02:00 Marks: 75

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1	Atte	mpt tl	he following questions	:		(20)

- a) What do you mean by Alicyclic and Acyclic compounds? Explain by giving proper examples.
- **b)** Why even number of carbon containing alkanes have higher melting point? Explain.
- **c**) Give reason: Why ketones are less reactive than aldehydes in nucleophilic addition reaction?
- **d)** Define and classify amines.
- e) Compare acidity of Benzoic acid, Acetic acid and Ethyl alcohol
- f) Differentiating tests for Ketone
- g) Physical properties of alkyl halide
- h) HinsbergbTest for amines
- i) Structure and uses of: Amphetamine
- i) 4+2 reaction for Dienes

Q-2		Attempt any two of following:	(20)					
	\mathbf{A}	Write a detail note on E1 and E2 reaction along with its reaction, mechanism,	10					
		difference and explanation.						
	В	Discuss SN1 and SN2 rections in Alkyl Halides and Steriocheistry involved						
	\mathbf{C}	Give Reactions of following:	10					
		i) Aldol & Cross-Aldol Condensation						
		ii) Cannizaro & Crossed-Cannizaro Reaction						
Q-3		Attempt any Seven of following:						
	\mathbf{A}	Discuss Sp3 and SP2 Hybridization in alkanes and its impact.	5					
	В	Write oxidation of Aldehyde & Ketone.	5					
	\mathbf{C}	Explain Birnhaum Simonini Reaction.	5					
	D	Explain Markovnikov's and Anti-Markovnikov's orientation in alkenes.	5					
	\mathbf{E}	Give laboratory method of preparation of alkanes and alkenes.	5					
	\mathbf{F}	Give Qualitative test, structure and uses of Glycerol and Propylene Glycol.	5					
	\mathbf{G}	Separation of primary, secondary and tertiary amines	5					
	\mathbf{H}	Write a detail note on Isomerism.	5					
	Ι	Define: Diene. Write down its method of preparation and chemical property.	5					

