Enrollment No: _____ Exam Seat No: _____

C.U. SHAH UNIVERSITY

Summer Examination-2022

Subject Name: Medicinal Chemistry I – Theory
Subject Code: BP402T Branch: B.Pharm
Semester: 4 Date: 04/05/2022 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 Attempt the following questions: (20)

a)	What are Catecholamine's? Give examples.	**2**
b)	Draw the structure and uses of Atenolol	**2**
c)	Define Antipsychotic drugs with MOA.	**2**
d)	Classify Sympathomimetic agents with examples.	**2**
e)	Give the structure and uses of Halothane and Ketamine HCl.	**2**
f)	Hydrolysis of Acetylcholine.	**2**
g)	Ionization and Hydroden bonding	**2**
h)	Structure and uses of Atropine and Neostigmine.	**2**
i)	What is Carbachol (synthesis)?	**2**
j)	Cholinergic receptors and their distribution.	**2**

Attempt the following questions:

Q-2		**Attempt any two of following : (2*10 Marks = 20 Marks)**	**(20)**
	A	Define Barbiturates; give classification, MOA and brief SAR. Give the synthesis and uses of Barbital.	**10**
	B	Define and classify cholinergic blocking agents, explain SAR in brief.	**10**
	C	Define drug metabolism, explain Phase I and Phase II reactions in brief.	**10**
Q-3		**Attempt any Seven of following : (7*5 Marks = 35 Marks)**	**(35)**
	A	Explain the SAR of Benzodiazepines.	**5**
	B	Define Phenothiazines, give SAR with synthesis of Chlorpromazine HCl.	**5**
	C	Give the Synthesis and Uses of: a. Phenytoin b. Propranolol	**5**
	D	Give Synthesis and Uses of Dicyclomine HCl and Procyclidine HCl.	**5**
	E	Give the biosynthesis and catabolism of Acetylcholine.	**5**
	F	Elaborate Factors affecting drug metabolism.	**5**
	G	Write down synthesis and use of salbutamol.	**5**
	H	Write a note on Solaneous alkaloids.	**5**
	I	Write a note on adrenergic receptor & their distribution.	**5**