Enrollment No:	Exam Seat No:

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name: Pharmaceutical Chemistry – IV (Medicinal Chemistry - I)

Subject Code: 4PS04PCH4 **Branch:** B. Pharm

Semester: 4 Date:24/04/2019 Time: 02:30 To 05:30 Marks: 70

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	Define the following terms:	(14)
	Solubility	(1)
b)	Redox potential	(1)
c)		(1)
	Receptor	(1)
e)	Prodrugs	(1)
f)	Bioisosterism	(1)
g)		(1)
h)	Ionization	(1)
i)	Laxatives	(1)
j)		(1)
k)	Complexation	(1)
1)	Antiemetics	(1)
) Antacids	(1)
n)	Antispasmodics	(1)
Attempt an	y four questions from Q-2 to Q-8	
Q-2		(14)
a	Explain Phase I and Phase II Drug Metabolism in Brief.	(7)
b	Give a brief note on biological and environmental factors affecting drug	(7)
	Metabolism.	
Q-3		(14)
a	Explain various physico-chemical properties of drug molecules influencing	(7)
•	biological activities.	(,,
b	Explain in detail protein binding of drug molecules.	(7)
Q-4		(14)
a	Define antisecretory agents. Classify and write mechanism of action of antisecretory	(7)
	agent's along with synthesis of Ranitidine.	` /
b	Define and classify various classes of drugs acting on G.I. Tract and write synthesis	(7)
	Page 1 2	



of omeprazole and its use.

Q-5			(14)
	a	What are Diagnostic agents, Give the importance of Radiopharmaceuticals.	(7)
	b	Write a note on diphenoxylate and diatrizoic acid	(7)
Q-6			(14)
	a	Write down the MOA of antihistamines, Classify Antihistaminics with examples in	(7)
		brief.	
	b	Give the synthesis of diphenhydramine, and chlorcylclizine,	(7)
Q-7			(14)
	a	Write various classes of drugs that act on respiratory tract and explain about expectorant and antitussive agents.	(7)
	b	Explain the mechanism of action of proton pump inhibitors.	(7)
Q-8			(14)
-	a	Write various anti-asthmatic agents with examples and their mechanism of action.	(7)
	b	Write a note on Autocoids.	(7)