

# C.U.SHAH UNIVERSITY

## Winter Examination-2015

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

**Subject Code: 4PS04PCH4**

**Branch: B.Pharm**

**Semester: IV**

**Date: 21/11/2015**

**Time: 2:30 To 5:30**

**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.

<b>Q-1</b>	<b>Attempt the following questions:</b>	<b>(14)</b>
	a) Define Expectorants	1
	b) Define Partition coefficient	1
	c) Define Complexation	1
	d) Define Solubility	1
	e) Define Antiemetics	1
	f) Define Mucolytics	1
	g) Define Receptors.	1
	h) Give two examples of Diagnostic agents	1
	i) Give two examples of Antispasmodics	1
	j) Define Prodrugs	1
	k) Write the structure of Trimeprazine	1
	l) Write the structure of Cetrizine	1
	m) Give two examples of Decongestants	1
	n) Give two examples of complexing agents.	1

**Attempt any four questions from Q-2 to Q-8**

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
	A Define H <sub>2</sub> receptor blockers. Give the classification by suitable examples and write synthesis of Cetrizine.	7
	B Write a brief note on Antiasthmatics.	7
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
	A What are Antisecretary agents? Write the synthesis of Ranitidine.	7
	B Write the mechanism of action of Proton pump inhibitors with reaction.	7
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
	A What are eicosanoids? Write about the eicosanoids approved for human clinical use.	7
	B What are radiopharmaceuticals? Write the synthesis of diphenoxylate.	7



<b>Q-5</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Write in detail about Autocoids.	<b>7</b>
<b>B</b>	Write in detail about stereochemical features of drugs.	<b>7</b>
<b>Q-6</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Write in detail about Drug metabolism process.	<b>7</b>
<b>B</b>	Write in detail about Drug receptor interactions.	<b>7</b>
<b>Q-7</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Write about Drugs acting on gastrointestinal tract. Explain about Antacids.	<b>7</b>
<b>B</b>	Write the synthesis of Omeprazole and diphenhydramine.	<b>7</b>
<b>Q-8</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Write in detail about the process of protein binding.	<b>7</b>
<b>B</b>	Explain respiratory stimulants and mucolytics.	<b>7</b>

