Enrollment No: Exam	1 Seat No:
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## **C.U.SHAH UNIVERSITY**

## Winter Examination-2015

Subject Name: Pharmaceutical Chemistry-V (Medicinal Chemistry-II)

Subject Code: 4PS05PCH5 Branch: B.Pharm

Semester: 5 Date: 4/12/2015 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.

Q-1		Attempt the following questions:	(14)
	a)	Give two examples of parasympathomimetics.	1
	<b>b</b> )	Write the structure of acetylcholine.	1
	<b>c</b> )	Write the use of propranolol.	1
	<b>d</b> )	Define local anaesthetics.	1
	<b>e</b> )	Give two examples of Antiparkinson agents.	1
	<b>f</b> )	Give two examples of tricyclic antidepressants.	1
	g)	Give two examples of Neuromuscular blocking agents.	1
	<b>h</b> )	Write the use of Salbutamol.	1
	i)	Write the structure of Ephedrine.	1
	<b>j</b> )	Write the structure of Nimesulide.	1
	<b>k</b> )	Give two examples of Muscarinic antagonists.	1
	l)	Give two examples of General anaesthetics.	1
	m)	Give two examples of acetyl cholinesterase inhibitors.	1
	n)	Write the use of neostigmine.	1
Attem	pt any f	our questions from Q-2 to Q-8	
Q-2		Attempt all questions	(14)
	$\mathbf{A}$	Classify Parasympathomimetics. Write the SAR of Parasympathomimetics.	7
	В	Write the Synthesis of Neostigmine and Dicyclomine.	7
Q-3		Attempt all questions	(14)
Q-3	$\mathbf{A}$	Define Sympathomimetic. Write the SAR of β-Phenylethanolamines.	7
	В	Write the Synthesis of Isoprenaline and Salbutamol.	7
Q-4		Attempt all questions	(14)
	A	Write in detail about Alzheimer's disease and Cognition enhancers.	7
	В	Write the Synthesis of Atenolol and Allopurinol.	7



Q-5		Attempt all questions	(14)
	$\mathbf{A}$	What are CNS stimulants? Classify Tricyclic antidepressants.	7
	В	Write the SAR of Tricyclic antidepressants with example.	7
Q-6		Attempt all questions	(14)
	A	Define Local anaesthetics. Write the SAR of Aniline derivatives as local anaesthetics.	7
	В	Classify Local anaesthetics. Write the synthesis of Lignocaine.	7
Q-7		Attempt all questions	(14)
	${\bf A}$	Classify NSAIDs. Write the synthesis of Diclofenac.	7
	В	Write the SAR of Morphine.	7
Q-8		Attempt all questions	(14)
_	$\mathbf{A}$	What is Anxiolytics? Write the SAR of Benzodiazepines.	7
	В	Classify Barbiturates on the basis of duration of action and write the SAR of Barbiturates	7