Enrollment No: Exa	m Seat No:
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## **C.U.SHAH UNIVERSITY**

## **Summer Examination-2017**

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

Subject Code: 4PS05PCH5 Branch: B.Pharm

Semester: 5	Date: 24/03/2017	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		Attempt the following questions.	(14)
•	a)	Write two examples of cholinergic agonists.	1
	<b>b</b> )	Write the structure of acetylcholine.	1
	c)	Write the use of bethanicol.	1
	d)	Define tranquilizers.	1
	e)	Give two examples of Antiepileptic drugs.	1
	<b>f</b> )	Give two examples of tricyclic antidepressants.	1
	<b>g</b> )	Give two examples 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 Diclofenac.	1
	<b>k</b> )	Give two examples of Muscarinic agonists.	1
	1)	Give two examples of hypnotics.	1
	m)	Give two examples of acetyl cholinesterase inhibitors.	1
	n)	Write the use of physostigmine.	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	A	Define Sympathomimetic. Write the SAR of β-Phenylethanolamines.	7
	В	Write the Synthesis of Isoprenaline and Salbutamol.	7
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Q-4		Attempt all questions	(14)
	$\mathbf{A}$	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 and write the mechanism of action.	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)
	$\mathbf{A}$	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

