

# C.U.SHAH UNIVERSITY

## Winter Examination-2018

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

Subject Code: 4PS05PCH5 Branch: B.Pharm

Semester: 5 Date:30/11/2018 Time: 10:30 To 01:30 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.
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<b>Q-1</b>	<b>Define the following terms:</b>	<b>(14)</b>
	a) Tricyclic Antidepressants	(1)
	b) Ganglionic blockers	(1)
	c) Inflammation	(1)
	d) Opioid Analgesics	(1)
	e) Local Anaesthetics	(1)
	f) Analeptics	(1)
	g) Convulsions	(1)
	h) Hallucinogens	(1)
	i) Parkinson's disease	(1)
	j) Adrenergic Receptors	(1)
	k) Butyrophenones	(1)
	l) Anxiolytics	(1)
	m) Muscarinic antagonists	(1)
	n) Catecholamine's	(1)

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

<b>Q-2</b>		<b>(14)</b>
	a) Write down the mechanism and SAR of Tricyclic Antidepressants.	(7)
	b) Classify CNS stimulants; give synthesis for Amphetamine and Imipramine.	(7)
<b>Q-3</b>		<b>(14)</b>
	a) Define and Classify Sympathomimetics with examples, give SAR of B-Phenylethanolamines class.	(7)
	b) Give the Biosynthesis and Pharmacological action of Acetylcholine	(7)
<b>Q-4</b>		<b>(14)</b>
	a) Explain Parasympatholytic agents. Give the SAR of Muscarinic Antagonist.	(7)
	b) Write down the classification and mechanism of action of Neuromuscular blocking agents.	(7)



- Q-5** (14)
- a Define Sympatholytics, give synthesis of Propranolol and Atenolol. (7)
  - b Write examples of alpha and beta adrenergic blockers, discuss SAR of B blockers. (7)
- Q-6** (14)
- a Differentiate sedatives and Hypnotics, give SAR of Barbiturates. (7)
  - b Define General Anaesthetics, Classify them with mechanism of action. (7)
- Q-7** (14)
- a Give the mechanism of action and SAR of morphine. (7)
  - b Define and classify NSAID, give the synthesis for Aspirin and Diclofenac. (7)
- Q-8** (14)
- a Explain Antipsychotics, give SAR of Phenothiazines. (7)
  - b Define Antiepileptics, give the synthesis of chlorpromazine and phenytoin. (7)

