

# C.U.SHAH UNIVERSITY

## Summer Examination-2020

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

Subject Code: 4PS05PCH5

Branch: B.Pharm

Semester : 5

Date : 28/02/2020

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) Antipsychotics	(1)
	b) Antiepileptics	(1)
	c) Inflammation	(1)
	d) Opioid Analgesics	(1)
	e) Local Anaesthetics	(1)
	f) Analeptics	(1)
	g) Convulsions	(1)
	h) Hallucinogens	(1)
	i) Parasympatholytics	(1)
	j) Adrenergic Receptors	(1)
	k) Sedative and Hypnotics	(1)
	l) Anxiolytics	(1)
	m) Antidepressants	(1)
	n) Catecholamine's	(1)

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

<b>Q-2</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 Catecholamines.	(7)
<b>Q-3</b>		<b>(14)</b>
a	Explain the classification and SAR of Parasympathomimetics.	(7)
b	Give mechanism of Parasympathomimetics, write synthesis for Neostigmine and Dicyclomine HCl.	(7)
<b>Q-4</b>		<b>(14)</b>
a	Classify sedatives and Hypnotics, give SAR of Barbiturates.	(7)
b	Explain the SAR Benzoic acid derivatives with synthesis of Halothane.	(7)



- Q-5** (14)  
a Write down the uses and synthesis of Propranolol and Atenolol. (7)  
b Explain the SAR and MOA of Tricyclic antidepressants. (7)
- Q-6** (14)  
a Give SAR of Phenothiazines. (7)  
b Give the synthesis of chlorpromazine and phenytoin. (7)
- Q-7** (14)  
a Give MOA of Parasympatholytic agents, give the SAR of Muscarinic antagonists. (7)  
b Explain Neuromuscular blocking agents and ganglionic blockers. (7)
- Q-8** (14)  
a Classify Opioid and Non-Opioid Analgesics; Give the SAR of morphine. (7)  
b Write the MOA of NSAID, give the synthesis for Aspirin and Diclofenac. (7)

