GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM.-SEMESTER-VI-EXAMINATION -SUMMER-2017

Subject code: 260004 Date: 05/0 Subject Name: Pharmaceutical Chemistry-VIII (Medicinal Chemistry) Time: 10.30 AM To 01.30 PM Total Ma						
Instructions:1. Attempt any five questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.						
Q.1	(a)	 Comment on following statements: The more bulky the substituent on nitrogen, α-receptor activity decreases and β-receptor activity increases in adrenergic series. Barbituric acid itself is pharmacologically inactive but barbiturates are used as hypnotic and sedative drugs. Rofecoxib is a selective cox-2 inhibitor but it should be contraindicate with antihypertensive agents. 	06			
	(c) (p)	Give synthetic route of Ephedrine and Neostigmine. Define adrenergic antagonists, classify it with suitable examples.	05 05			
Q.2	(a)	Define and classify antiepileptic drugs. Discuss SAR of Benzodiazepines.	06			
	(b)	Discuss drugs used in treatment of gout. Give synthesis of allopurinol.	05			
	(c)	Outline synthesis of Meprobamate and Halothane.	05			
Q.3	(a)	Define and classify CNS stimulants. Write synthesis of amphetamine.	06			
	(b)	What is Parkinson disease? Discuss various class of drugs used in treatment of Parkinson disease.	05			
	(c)	Explain with suitable example, how the following functional group containing drugs are functionalized and then conjugated. (Any Two) 1. Ester 2. 2° alcohol 3. 3° amine	05			
Q.4	(a)	Write short note on the following. (Any Two) 1. Neuromuscular blocking agents 2. Factors affecting drug- receptor interaction 3. Cognition enhancers	06			
	(b)	3. Cognition enhancers Classify anticholinergic agents and discuss SAR of cholinergic	05			

What are parasympathomimetics? Classify them with suitable 05

blocking agents.

examples.

(c)

http://www.gujaratstudy.	com		
Q.5	(a)	Define and classify NSAID's with suitable structures. Give synthesis of Aspirin.	06
	(b)	Discuss the SAR of phenothiazine.	05
	(c)	Discuss importance of CYP450 in xenobiotics metabolism.	05
Q. 6	(a)	Write short note on the following.1. SAR of Phenylethanolamines2. Drugs used in Alzheimer's disease	06
	(b)	Define and classify antidepressant agents. Discuss SAR of tricyclic antidepressants.	05
	(c)	Define opioid analgesic drugs. Explain SAR of meperidine series.	05
Q.7	(a)	Define and classify local anesthetic agents. Discuss SAR of ester containing anesthetic drugs.	06
	(b)		05
	(c)	Explain about following theory of receptor. 1. Occupational Theory 2. Induced fit theory	05
