GUJARAT TECHNOLOGICAL UNIVERSITY M. Pharm. – SEMESTER – I • EXAMINATION – SUMMER • 2014 Subject Code: 910103 Date: 23-05-2014			
	-	:30 pm - 05:30 pm Total Marks: 80	
Instr	uction	ns:	
		Attempt any five questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
Q.1	(a)	Enlist various transport mechanism across cell membrane. Explain in detail facilitated, diffusion and carrier mediated transport.	06
	(b) (c)	Explain the molecular mechanism of apoptosis. Write a note on pathophysiological role of leukotrines.	05 05
Q.2	(a)	Classify various mechanisms of drug antagonism. Discuss receptor occupancy based drug antagonism in details.	06
	(b)	Describe various diseases resulting from receptor malfunction.	05
	(c)	Enlist excitatory neurotransmitters. Write a note on NMDA receptors.	05
Q.3	(a)	Discuss the role of Nitric Oxide in various physiological functions. Describe its role in pharmacotherapy of erectile dysfunction and hypertension.	06
	(b)	Classify 5-HT receptors and describe various drugs acting through these receptors.	05
	(c)	Write a short note on gene therapy.	05
Q.4	(a) (b)	What are prostanoids? Explain the role of prostanoids in inflammation? Give a brief note on Muscarinic receptors – location, types, signal transduction	06 05
	(c)	and agonist – antagonists. Classify dopamine receptors. Discuss in brief about their location and signal transduction mechanism.	05
Q.5	(a) (b)	Write a short note on aging and anti-aging neuromechanisms. Write a short note on PAF.	06 05
	(c)	Explain the importance of Radio-ligand binding studies.	05
Q. 6	(a) (b)	Write a note on calcium channels and their modulators. Describe structure of GABA receptor and enlist various drugs acting on GABA	06 05
	(c)	receptors. Write a short note on histamine receptors.	05
Q.7	(a) (b)	Discuss signal transduction mechanism by GPCR. Explain the role of cytokines in various immunological and inflammatory	06 05
	(c)	disorders. Write a note on nuclear receptors.	05

Enrolment No._____

Seat No.: _____
