Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm-Semester-VI May-2012 Examination Subject code: 260004

Subject Name: Pharmaceutical Chemistry-VIII (Medicinal Chemistry)

Time: 10:30am to 1:30pm Date: 08-05-2012
Total Marks: 80

Instructions:

(b)

(c)

(a)

(b)

(c)

i. Paracetamol

i. Alzheimers disease

Write short notes on ANY ONE:

Q.7

1. Attempt any five questions.

2. Make suitable assumptions wherever necessary.

3. Figures to the right indicate full marks.

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Q.1	(a) (b) (c)	What are major pathways of metabolism? Explain phase-I reactions in detail. Explain factors affecting the drug-receptor interactions What is Parkinsons disease? Comment on drugs used in treatment of Parkinsons disease	06 05 05
Q.2	(a)	Give chemical classification of cholinergic blocking agents and discuss SAR	06
	(b)	of cholinergic blocking agents. Give synthesis and uses of:	05
	. ,	i. Neostigmine ii. Dicyclomine hydrochloride.	
	(c)	What are neuromuscular blocking agents? Discuss in brief different types of Neuromuscular blocking agents.	05
Q.3	(a)	What are sympathomimetics? Explain metabolism of norepinephrine and epinephrine by MAO and COMT.	06
	(b)	Give synthesis and uses of ANY TWO of the following drugs: i. Dopamine ii. Isoprenaline iii. Ephedrine	05
	(c)	Give SAR of β-Adrenergic Receptor Antagonists.	05
Q.4	(a)	Give SAR & mechanism of action of Tricyclic Antidepressants.	06
	(b)	Define and classify CNS stimulants. Write a note on analeptics.	05
	(c)	Give structure and IUPAC nomenclature of the following drugs:	05
		i. Amitriptylline ii. Fluoxetine iii. Amphetamine iv. Imipramine	
Q.5	(a)	Classify CNS depressants and write a note on SAR of Barbiturates.	06
	(b)	What is Psyhoses? Give SAR of Phenothiazine.	05
	(c)	Discuss types of epilepsy and write a note on Hydantoins.	05
Q. 6	(a)	Comment on Benzoic acid and Aniline derivatives as local anesthetics. Give one structural example from each class.	06

Give synthesis and uses of Any Two of the following:

What are analgesics? Give SAR and mechanism of action of Morphine

ii. Aspirin iii. Naproxen

se ii. DMARDs ********

i. Thiopental sodium ii. Lignocaine iii. Phenytoin. Discuss Benzodiazepines as Sedative Hypnotic?

Give synthesis and use of Any Two of the following:

05

05

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