Enrolment No.	
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## GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – VI • EX	AMINATION – WINTER • 2015
Subject Code: 260004	Date: 04-01-2016
Subject Name: Pharmaceutical Chemist	ry-VIII (Medicinal Chemistry)
TI 00.00 TI 05.00	<b>T</b>

Time: 02.30 pm To 05.30 pm

Total Marks: 80

## **Instructions:**

(c)

1. Attempt any five questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b) (c)	Explain various theories of receptors. What is CYP450? Give its function and important. Which factors are affecting on drug receptor interaction? Briefly explain.	06 05 05
Q.2	(a)	Which are the major pathways of metabolism? Explain phase-I reactions in detail.	06
	(b) (c)	Give the synthesis of adrenaline and amphetamine with its mode of action. Write a note on Antiparkinson's agent.	05 05
Q.3	(a) (b) (c)	What are sympathomimitics? Classify them with examples. Write a note on antigout agents. Define Cognition enhancers and its importance.	06 05 05
Q.4	(a) (b) (c)	Give the synthesis of any any three drugs: (i) Dopamine (ii) Naphazoline (iii) Salbutamol (iv) Pethidine Write a note on Alzheimer's disease. Define opiod analgesic and write SAR on Morphine.	06 05 05
Q.5	(a) (b) (c)	What is antidepressant? Give SAR of tricyclic antidepressants.  Briefly explain role of Neuromuscular blocking and ganglionic blockers.  Write synthesis of any two:  (i) Nikethamine (ii) Imipramine (iii) Amitriptyllin	06 05 05
Q. 6	(a) (b) (c)	What are general anesthetics? Give SAR of local anesthetics.  Define Sedative and Hypnotic agents. Classify with suitable examples.  Write a note on DMARDs.	06 05 05
Q.7	(a) (b)	Give chemical classification of Antipsychotics and discuss SAR of phenothiazine.  Write a SAR on Benzodiazepines.	06 05

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Define and classify NSAIDs. Give the synthesis of Diclofenac sodium.

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