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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

B. Pharm. - SEMESTER - VI • EXAMINATION - WINTER • 2015

Subject Code: 2260004 Date: 04-01-2016 Subject Name: Pharmaceutical Chemistry VIII (Medicinal Chemistry-II) Time: 02:30 pm - 05:30 pm Total Marks: 80

## **Instructions:**

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b) (c)	Classify receptors? Describes theories of drug receptor interaction in detailed. Describe various forces involved in drug receptor interaction with examples. Write short note on CYP450 in detail.	06 05 05
Q.2	<ul><li>(a)</li><li>(b)</li></ul>	What are xenobiotics? How drugs metabolized in Phase-I metabolism? Explained the same with examples.  What is Phase-II metabolism? How glucoronide conjugation helps to metabolized drug molecules. Explain with examples.	06 05
	(c)	Discuss factor affecting drug metabolism in detailed.	05
Q.3	(a) (b) (c)	Discuss in detailed SAR of Tricyclic antidepressant. Write short notes on analeptic agents. Write synthesis of any two: a) Phenytoin b) Imipramine c) Halothane	06 05 05
Q.4	(a) (b) (c)	Define hypnotic and sedative? Write Detailed SAR of benzodiazepines. Write SAR of local anesthetic agents with respect to benzoic acid and aniline derivatives. Write short notes on general anesthetic agents.	06 05 05
Q.5	(a) (b) (c)	Define antipsychotic agents. Write detailed SAR of phenothiazines. Write synthesis of any two: a) Phenobarbitone b) Lignocaine c) Chlorpromazine Write SAR of Barbiturates.	06 05
Q. 6	(a) (b) (c)	Write short note on Antiparkinson's agents in detailed. What is DMARDS? Write detailed short notes on it. Write Mechanism of action, uses and side effects of Selective Serotonin Reuptake Inhibitors.	06 05 05
Q.7	(a) (b)	Write Mechanism of action, uses and side effect of NSAIDs. Write synthesis of any two: a) Ibuprofen b) Allopurinol c) Diclofenac	06 05
	(c)	What are cognition enhancers? Write short notes on drug used in treatment of Alzheimer's disease.	05