

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. SEMESTER– VI • EXAMINATION – SUMMER-2016

Subject code: 2260004

Date: 07/05/2015

Subject Name: Pharmaceutical Chemistry VIII (Med. Chem. II)

Time: 10:30 AM to 1:30 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)	Define sedatives and hypnotics. Classify with examples. Discuss general method of synthesis of barbiturates.	06
	(b)	Enlist and explain factors affecting drug-receptor interaction.	05
	(c)	Write note on neuroleptics.	05
Q.2	(a)	Write note on phase - II metabolic pathways.	08
	(b)	Why carbidopa is suggested with L-Dopa in Parkinson's disease?	04
	(c)	Discuss SAR of barbiturates.	04
Q.3	(a)	Write differences between opioid and non-opioid analgesics. Discuss SAR of phenothiazines.	06
	(b)	Write synthesis of xylocaine, nimesulide, phenytoin.	06
	(c)	Discuss SAR of benzodiazepines.	04
Q.4	(a)	What are enzymes p-450? Explain catalytic reaction cycle involving them.	06
	(b)	Write note on anti-gout drugs.	05
	(c)	Write note on Alzheimer's disease.	05
Q.5	(a)	Discuss stages of anesthesia. Classify local anesthetics with example. Write synthesis of thiopental sodium.	07
	(b)	Explain different types of epilepsy. Classify epileptic agents with examples.	05
	(c)	Discuss SAR of local anesthetics having amide linkage in their structures.	04
Q. 6	(a)	Write note on general anaesthetics.	06
	(b)	Discuss SAR of tricyclic anti-depressants.	05
	(c)	Write note on cognition enhancers.	05
Q.7	(a)	Write note on anti-anxiety agents.	06
	(b)	Write synthesis of Halothane, chlorpromazine and L-Dopa.	05
	(c)	Write note on xanthine alkaloids as CNS stimulants.	05
