

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 6 EXAMINATION – SUMMER -2019

Subject Code: 260004

Date: 14-05-2019

Subject Name: Pharmaceutical Chemistry - VIII (Medicinal Chemistry)

Time: 02:30 PM TO 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)	Give structure and use of the following. 1) Amitryptiline 2) Indomethacin 3) Morphine 4) Diclofenac 5) Carbamazepine 6) Mefenamic acid	06
	(b)	Write structural difference between amphetamine and ephedrine and synthesis of any one.	05
	(c)	Why the enzyme Cytochrome called P-450? Explain catalytic reaction cycle involving it.	05
Q.2	(a)	Explain different theories of receptors.	06
	(b)	Explain factors affecting drug metabolism.	05
	(c)	Give the synthesis of following drugs: (i) Procaine (ii) Salbutamol	05
Q.3	(a)	Define and classify cholinergic agents. What are cholinesterase inhibitors? How do they act? Give examples.	06
	(b)	Write synthesis of thiopental sodium with mode of action.	05
	(c)	What is myasthenia gravis? Write the structures of the drugs used in the treatment of myasthenia gravis.	05
Q.4	(a)	What are Sedative and Hypnotics. Classify them in detail.	06
	(b)	What is Anaesthesia? Write note on General Anaesthetic agents.	05
	(c)	Discuss in detail Cognition enhancers.	05
Q.5	(a)	What is xenobiotics? Describe Phase-I of Xenobiotic metabolism.	06
	(b)	Classify Local Anesthetics in detail.	05
	(c)	What do you mean by hallucination ? Write a note on hallucinogens.	05
Q. 6	(a)	Define and classify antiepileptic drugs. Discuss SAR of Benzodiazepines.	06
	(b)	Write SAR of barbiturates.	05
	(c)	Write a detail note on Antiparkinson's agents.	05
Q.7	(a)	Classify antidepressants. Describe in detail about MOA, SAR & therapeutic uses of MAO inhibitors.	06
	(b)	What is schizophrenia? Explain SAR of Phenothiazine derivatives as CNS depressants.	05
	(c)	Discuss drugs used in treatment of gout. Give synthesis of allopurinol.	05
