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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

B. Pharm. - SEMESTER - VI • EXAMINATION - WINTER • 2016

Subject Code: 2260004 Date: 24-10-2016 Subject Name: Pharmaceutical Chemistry-VIII (Medicinal Chemistry – II) 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)	Draw structure and name the main heterocyclic ring present in the following drugs. i) Allopurinol ii) Naproxen iii) Ibuprofen iv) Halothane v) Amphetamine vi) Chlorpromazine	06
	(b) (c)	Explain Various Forces involved in Drug-Receptor Interaction Write with structure illustration metabolic biotransformation of any two of the following drugs i) Trimethoprim ii) Aspirin iii) Chloramphenicol	05 05
Q.2	(a) (b)	What are Analgesics? Write SAR and mode of action of morphine What is Cytochrome P-450? Explain its role and function in Xenobiotic Metabolism	06 05
	<b>(c)</b>	Write synthesis of any one NSAID having one chiral centre.	05
Q.3	(a) (b)	Discuss SAR of Tricyclic Antidepressant drugs with suitable example. Write structure and IUPAC name of the following i) Fluoxetine ii) Imipramine iii) Phenytoin iv) Methyl salicylate v) Paracetamol.	06 05
	(c)	Abbreviate DMARD. Explain why Carbidopa is suggested with L-dopa in Parkinson's disease.	05
Q.4	(a)	Explain SAR of Barbiturates in detail.	06
	<b>(b)</b>	Write synthesis of Lignocaine and discuss its mode of action	05
	<b>(c)</b>	What is Alzheimer's disease? Discuss its cause and treatment.	05
Q.5	(a)	Classify and Write SAR of Anxiolytics.	06
	( <b>b</b> )	Write a short note on Cognition Enhancers	05
	<b>(c)</b>	Write synthesis of any two drugs i) Ibuprofen ii) Nimesulide iii)Carbamazepine	05
Q. 6	(a)	What is Psychoses? Explain SAR of Phenothiazines	06
	( <b>b</b> )	Discuss Anti-Gout agents and their Mode of action.	05
	<b>(c)</b>	Classify and Explain Hallucinogens in detail.	05
Q.7 (a)	(a)	Explain NSAIDs and comment how Opiod analgesics differ from NSAIDs.	06
-	<b>(b)</b>	Write a note on Antiparkinson drugs	05
	(c)	Write synthesis of any two i) L-Dopa ii) Diclofenac iii) Thiopental sodium	05

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