Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY** B.Ph. - SEMESTER-IV • EXAMINATION – SUMMER -2020

Subject Code: BP402TP		Code: BP402TP Date	Date: 27-10-2020	
Time Instru 1. 2.	e: 10 ections Atte Mal		tal Marks: 80	
Q.1	(a) (b) (c)	Write all possible routes for the metabolism of norepinephrine. Write the biosynthesis of norepinephrine with chemical reaction Discuss the types of cholinergic receptors with their distribution		06 05 05
Q.2	(a) (b) (c)	Describe the SAR of adrenergic agonists.  Write a note on indirectly acting sympathomimetics.  Write the synthesis of salbutamol and propranolol.		06 05 05
Q.3	(a) (b) (c)	Discuss in brief the development of medicinal chemistry.  Make an introductory note on phase I and phase II metabolism.  Discuss the importance of protein binding and hydrogen bonding in producing drug's biological action.		06 05 05
Q.4	(a) (b) (c)	Classify the antiepileptics with one drug's structure from each of Discuss the structural modifications of 5-phenyl-1,4-benzodiaze Write the synthesis of any two anticonvulsant drugs.		06 05 05
Q.5	<ul><li>(a)</li><li>(b)</li><li>(c)</li></ul>	Define the word 'opioids'. Write the name and structurant antagonists.  Write the mechanism of action of NSAIDs. Write the synth NSAID from aryl propionic acid class.  Classify the NSAIDs with one drug's structure from each class.	esis of any one	06 05 05
Q. 6	(a) (b) (c)	Define neuroleptics. Write the mechanism of action and possible them.  Describe the structural modification of side chain of phenothiaz Classify the general anaesthetics with two drugs' structures from	ines.	06 05 05
Q.7	(a) (b) (c)	Classify the parasympathomimetics with two drugs' structures f Write a note on cholinesterase reactivators. Write the chemical class, synthesis and use of dicyclomine hydr		06 05 05

\*\*\*\*\*\*