



## GUJARAT TECHNOLOGICAL UNIVERSITY

B.Ph. - SEMESTER-IV • EXAMINATION - WINTER-2020

Subject Code:BP402TP Date: 10/02/2021

Subject Name: Medicinal Chemistry I

Time: 02:30PM TO 04:30PM Total Marks: 54

**Instructions:** 

- 1. Attempt any THREE questions from Q-1 to Q-6.
- 2. Q.7 is compulsory to attempt.
- 3. Make suitable assumptions wherever necessary.
- 4. Figures to the right indicate full marks.

Q.1	(a) (b) (c)	Classify the parasympathomimetics with chemical structures.	06 05 05
Q.2	(a) (b)	Discuss the impact of lipophilicity and H-bonding with drug's biological activity.	06 05
	(c)	Write a short note on bioisosterism.	05
Q.3	(a) (b) (c)	Write a note on cholinesterase reactivators.	06 °° 05 05
Q.4	(a) (b) (c)	Classify the sedative-hypnotics with chemical structures.	06 05 05
Q.5	(a) (b) (c)	Discuss the SAR of 5-phenyl-1,4-benzodiazepin-2-one.	06 05 05
Q. 6	(a) (b) (c)	Write the synthetic steps and use of ethosuximide.	06 05 05
<b>Q.7</b>	(a)	1	06
	(a)	OR Define biotransformation of drugs. Give some examples with reactions of phase-I metabolism.  OR	06
	(a)	Describe factors affecting drug metabolism.	06