Seat No.: Enr	olment No.
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**Subject Code:BP501TT** 

**Subject Name: Medicinal Chemistry II** 

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

B.Ph. - SEMESTER- 5 • EXAMINATION – SUMMER -2020

Date: 26-10-2020

Instru 1. 2.	ctions Atte Mak	30 PM TO 5:30 PM  Total Marks: 80  Empt any five questions.  As suitable assumptions wherever necessary.  Heres to the right indicate full marks.	
Q.1	(a) (b) (c)	Enlist various histamine receptors. Discuss neurochemistry of histamine. Give the synthesis of Promethazine hydrochloride and diphenhydramine hydrochloride.  Write a note on Nitroglycerin as a Vasodilator.	06 05 05
Q.2	(a) (b) (c)	Classify Diuretics with one structure in each class. Write mechanism of action, uses and side effect of Acetazolamide.  Write informative note on Anti-hypertensive agents and give the synthesis of Methyldopate hydrochloride.  Write a note on Gastric Proton pump inhibitors.	05 06 05 05
Q.3	<ul><li>(a)</li><li>(b)</li><li>(c)</li></ul>	Classify Antiarrhythmic agents with one structure in each class. Write synthesis of Disopyramide phosphate.  Write short notes on heparin as anticoagulant and give the synthesis of Warfarin.  Give the synthesis the following: (Any two)  (i) Isosorbide dinitrite (ii) Chlorthiazide (iii) Furosemide.	06 05 05
Q.4	(a) (b) (c)	Explain in detail the nomenclature and stereochemistry of steroidal compounds. Write a note on Anti-hyperlipidemic agents. Write informative note on Sex hormones.	06 05 05
Q.5	(a) (b) (c)	Give the synthesis and uses of the following: (Any two) (i) Tobutamide (ii) Benzocaine (iii) Dibucaine. Write a note on Antithyroid agents. Write a note on the natural products used as antineoplastic agents.	06 05 05
Q. 6	(a) (b) (c)	Define and classify Antidiabetic agents. Give the synthesis of Procaine. Classify anti neoplastic alkylating agents with relevant examples. Write a note on Oral contraceptives.	06 05 05
Q. <b>7</b>	(a) (b) (c)	Discuss the SAR of Local anesthetics. Write a note on Drugs used in Congestive Heart Failure. Write a brief note on H2-antagonists.	06 05 05

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