

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER-V • EXAMINATION – WINTER-2020**Subject Code:BP501TT****Date: 02/01/2021****Subject Name: Medicinal Chemistry II****Time: 10:30AM TO 12:30PM****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) Enlist various histamine receptors. Discuss neurochemistry of histamine. **06**
(b) Short note on oral contraceptives. **05**
(c) Write synthesis of following **05**
i) Promethazine hydrochloride ii) Cimetidine
- Q.2** (a) Discuss in detail about proton pump inhibitors along with its mechanism of action. **06**
(b) Short note on H₂ receptor antagonist. **05**
(c) What do you mean by Diuretics? Classify and give the synthesis of Furosemide. **05**
- Q.3** (a) Short note on Antiarrhythmic agents **06**
(b) Write short notes on coagulants and anticoagulants. **05**
(c) Write Synthesis of following **05**
i) Nitroglycerin ii) Methyldopa
- Q.4** (a) SAR of local anaesthetic. **06**
(b) Write Synthesis of following **05**
i) Tolbutamide ii) Benzocaine
(c) Define and classify Antianginal agents with the synthesis of Isosorbide dinitrate. **05**
- Q.5** (a) Discuss the various factors which are affecting on blood coagulation and write a note on Warfarin. **06**
(b) Define antihypertensive agents with its classification and write a note on calcium channel blockers. **05**
(c) Write Synthesis of following **05**
i) Chlorthalidate ii) Acetazolamide
- Q. 6** (a) Write short notes on stereochemistry of steroids. **06**
(b) Short note on testosterone. **05**
(c) Give detail account on various corticosteroids. **05**
- Q.7** (a) What is Diabetes? Classify antidiabetics with examples and give their mechanism of action. **06**
- OR**
- (a) Write a note on antithyroid drugs. **06**
- OR**
- (a) What is obesity? Write a note on antiobesity drugs. **06**
