

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph.- SEMESTER-V • EXAMINATION – WINTER -2019**Subject Code: BP501TT****Date: 15/11/2019****Subject Name: Medicinal Chemistry-II****Time: 02:30PM TO 05:30PM****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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| Q.1 | (a) Define and classify oral hypoglycemic agents. | 06 |
| | (b) Explain the SAR of local anesthetic agents. | 05 |
| | (c) Give detail note on thyroid hormones and write a note on anti-thyroid drugs. | 05 |
| Q.2 | (a) Write a note on nomenclature and stereochemistry of steroids. | 06 |
| | (b) Discuss coagulants and anticoagulants. | 05 |
| | (c) Give detail note on oral contraceptives. | 05 |
| Q.3 | (a) Define and classify Antiarrhythmic drugs. Explain mode of action in each class. | 06 |
| | (b) Write a note on proton pump inhibitors. | 05 |
| | (c) Write a note on drugs used in congestive heart failure. | 05 |
| Q.4 | (a) Give structure and uses of (i) Diltiazem (ii) Verapamil (iii) Clofibrate | 06 |
| | (b) Explain types of diabetes and write a note on various insulin preparations. | 05 |
| | (c) Write a short note on ACE inhibitors. | 05 |
| Q.5 | (a) What are anti-histaminic? How they act? Classify them with examples. | 06 |
| | (b) Write a note on HMG Co-A reductase inhibitors. | 05 |
| | (c) Write a note on H ₂ -antagonists. | 05 |
| Q. 6 | (a) Define and Classify Antihypertensive agents with examples. | 06 |
| | (b) Give Synthesis of (i) Diphenhydramine hydrochloride (ii) Furosemide | 05 |
| | (c) Write a note on potassium sparing diuretics and thiazide diuretics. | 05 |
| Q.7 | (a) Write detail classification and short mechanism of action of anticancer agents | 06 |
| | (b) Give Synthesis of (i) Cimetidine (ii) Tolbutamide | 05 |
| | (c) Write short note on corticosteroids. | 05 |
