

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.

- 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<sub>2</sub>-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**

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