

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 8- EXAMINATION –WINTER - 2018**Subject Code: 2280003****Date: 19/11/2018****Subject Name: Pharmaceutical Chemistry – X (Medicinal Chemistry - III)****Time: 02:30 PM TO 05:30 PM****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) Give the method of synthesis of (i) Warfarin (ii) Metformin (iii) Carbimazole **06**
(b) Write informative note on Anti platelet Agents **05**
(c) What is obesity? Write a note on antiobesity drugs. **05**
- Q.2** (a) Discuss the SAR among Cardiac glycosides. **06**
(b) Write short note on immunomodulators. **05**
(c) Give the method of synthesis of (i) Lignocaine (ii) Atenolol **05**
- Q.3** (a) Give the method of synthesis of (i) Clofibrate (ii) Ethacrinic acid (iii) Glimipride **06**
(b) Discuss the SAR among (i) Estrogens (ii) Dihydropyridnes **05**
(c) Write short notes on Thrombolytic agents. **05**
- Q.4** (a) Define and classify Diuretic Agents. Discuss the SAR among Progestins and Androgens. **06**
(b) Write detail note on Cardio tonic Agents. **05**
(c) Write down notes on Coagulants and Anticoagulants. **05**
- Q.5** (a) What are the causes of hypertension ? Write a note on β -blockers. **06**
(b) Define and classify Hypoglycemic Agents. **05**
(c) Give SAR of ACE inhibitors. **05**
- Q.6** (a) What is Diabetes ? Classify antidiabetics with examples and give their mechanism of action. **06**
(b) Discuss the SAR among (i) Thiazide Diuretics (ii) 5- Sulfamoyl Benzoic acid derivatives. **05**
(c) Discuss detail about Plasma expanders **05**
- Q.7** (a) Explain in detail the nomenclature and stereochemistry of Steroidal Compounds. **06**
(b) Discuss the SAR among HMG CoA Reductase inhibitors. **05**
(c) Give the method of synthesis of (i) Acetazolamide (ii) Captopril **05**
