

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.**

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|------------|---|-----------|
| 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) Dihydropyridines | 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 |
