

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm SEMESTER-VIII • EXAMINATION – SUMMER-2017

Subject Code: 2280003

Date: 02/05/2017

Subject Name: Pharmaceutical Chemistry-X (Medicinal Chemistry-III)

Time: 10:30 AM to 01:30 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) | Classify antihypertensive drugs based on their mechanism of action. Give structure and IUPAC name of any one drug of each class. | 06 |
| | (b) | Discuss SAR of Cardiac Glycoside. | 05 |
| | (c) | Give synthetic route for amlodipine and flecainide | 05 |
| Q.2 | (a) | What are antidiabetic drugs ? Classify them with recent advances in it. | 06 |
| | (b) | Describe SAR of sulfamoyl benzoic acid derivatives. | 05 |
| | (c) | Outline synthesis of lignocaine and dobutamine. | 05 |
| Q.3 | (a) | Classify diuretics with structure and IUPAC name of any one drug of each class. | 06 |
| | (b) | Write a note on antiplatelet agents and thrombolytic agents. | 05 |
| | (c) | Give detail account on lipid lowering agents. Give synthetic route for clofibrate. | 05 |
| Q.4 | (a) | Discuss in detail about nomenclature and stereochemistry of steroids. | 06 |
| | (b) | Give SAR of ACE inhibitors. Outline synthesis of hydralazine. | 05 |
| | (c) | Give synthetic method for acetazolamide and captopril. | 05 |
| Q.5 | (a) | Give detail account on various corticosteroids. | 06 |
| | (b) | Discuss SAR of progestins and androgens. | 05 |
| | (c) | Give synthesis route for metformin and tolbutamide. | 05 |
| Q. 6 | (a) | What are immunomodulators ? Discuss about each in detail. | 06 |
| | (b) | Give SAR of HMG CoA reductase inhibitors. | 05 |
| | (c) | Outline synthetic route for furosemide and metoprolol. | 05 |
| Q.7 | (a) | Write a note on antiobesity drugs and antithyroid drugs. | 06 |
| | (b) | Discuss SAR of dihydropyridines. | 05 |
| | (c) | Give synthesis of glipizide and hydrochlorthiazide. | 05 |
