

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-8 • EXAMINATION – SUMMER -2018

Subject Code: 2280003**Date: 02/05/2018****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) Write a note on nomenclature and stereochemistry of steroids. | 06 |
| | (b) Define and classify antidiabetic agents. Give the synthesis of tolbutamide. | 05 |
| | (c) Write a note on anti-obesity drugs. | 05 |
| Q.2 | (a) Give a detailed SAR of adreno-corticoids. | 06 |
| | (b) Write a note on immunomodulators. | 05 |
| | (c) Write a note on thrombolytic agents. | 05 |
| Q.3 | (a) What are cardiotonic agents . Give SAR of cardiac glycosides. | 06 |
| | (b) Define and classify antianginal agents. Give synthesis of glyceryltrinitrate. | 05 |
| | (c) Write a note on antiplatelet agents. | 05 |
| Q.4 | (a) Define and classify antihypertensive agents. Give synthesis of atenolol. | 06 |
| | (b) Write a note on coagulants and anticoagulants. | 05 |
| | (c) Write a note on antithyroid drugs. | 05 |
| Q.5 | (a) Give a detailed SAR on progestins and androgens. | 06 |
| | (b) Give synthesis of methimazole and carbimazole. | 05 |
| | (c) Write a note on antihyperlipidemic agents. | 05 |
| Q. 6 | (a) Give the IUPAC name and synthesis of 1)lignocaine 2) clofibrate 3) warfarin | 06 |
| | (b) Write a note on plasma expanders. | 05 |
| | (c) Write a note on thyroid hormones. | 05 |
| Q.7 | (a) What are diuretics. Give detailed SAR of thiazide diuretics. | 06 |
| | (b) Give synthesis of hydrochlorthiazide and Furosemide. | 05 |
| | (c) Give synthesis of metformin and pioglitazone. | 05 |
