

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – VIII • EXAMINATION – WINTER • 2014

Subject Code: 280003

Date: 29-11-2014

Subject Name: Pharmaceutical Chemistry X (Medicinal Chemistry)

Time: 02:30 pm - 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) Discribe Physio-Chemical parameters in details. Write a note on QSAR | 06 |
| | (b) Classify diuretics and give synthesis of Hydochlorthiazide. | 05 |
| | (c) Give SAR activity of 5-Sulfamoyl benzoic acid derivatives | 05 |
| Q.2 | (a) Give brief account of β -blockers as potential antihypertensive agents. Give synthesis of atenolol. | 06 |
| | (b) Write a note on ACE inhibitors. Give synthesis of captopril. | 05 |
| | (c) Write a note on Antiplatelet agents | 05 |
| Q.3 | (a) Write a note on Antihyperlipidemic agents and give SAR activity of HMG CoA reductase. | 06 |
| | (b) Discuss SAR of cardiac glycosides. | 05 |
| | (c) Write a short note on Anticoagulants. | 05 |
| Q.4 | (a) Classify antiarryhythmic agents. Discuss mechanism of action of each class. | 06 |
| | (b) Write a note on potassium sparing diuretics. | 05 |
| | (c) Write a short note on CADD | 05 |
| Q.5 | (a) Write a note on Hansch Linear Freee Energy Relationship model. | 06 |
| | (b) Write a note on Antiobesity Drugs | 05 |
| | (c) Write a note on Combinatorial Chemistry | 05 |
| Q. 6 | (a) Write a note on methods of lead discovery. | 06 |
| | (b) Write a note on thrombolytic agents. | 05 |
| | (c) Write a note on organic nitrates. | 05 |
| Q.7 | (a) Write a note on Molecular Modeling. | 06 |
| | (b) Write a note on Antiplatelet agents. | 05 |
| | (c) Give synthesis of (a) Lignocaine and (b) Hydralazine | 05 |
