

GUJARAT TECHNOLOGICAL UNIVERSITY**M. PHARM - SEMESTER-III • EXAMINATION – SUMMER-2016****Subject Code: 930101****Date: 27/05/2016****Subject Name: Advanced Medicinal Chemistry****Time: 2:30 PM to 5:30 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 Solid Phase synthesis of peptides. | 06 |
| | (b) | Discuss SAR of tetracycline group of antibiotics. | 05 |
| | (c) | Discuss various glucocorticoids in detail. | 05 |
| Q.2 | (a) | Give the synthesis of Chloroquine and Pyrimethamine. | 06 |
| | (b) | Write note on HIV protease inhibitors. | 05 |
| | (c) | Write a note on recent development in the therapy of fungal infection. | 05 |
| Q.3 | (a) | What are the rational behind use of microorganism for drug synthesis?
Explain with suitable examples. | 06 |
| | (b) | Write a note on antiparkinson drugs. | 05 |
| | (c) | Discuss recent advances in theory of Neurodegenerative diseases. | 05 |
| Q.4 | (a) | Discuss recent advances in antiviral agents. | 06 |
| | (b) | Write synthesis of Isoniazide and Ethambutol. | 05 |
| | (c) | Discuss SAR angiotension receptor blockers. | 05 |
| Q.5 | (a) | Write in detail about peptidomimetics. | 06 |
| | (b) | Write a note on Interferon and Insulin. | 05 |
| | (c) | Give detail account on High Throughputs Screening (HTS). | 05 |
| Q. 6 | (a) | Classify cephalosporins and write a note on future developments in cephalosporin design. | 06 |
| | (b) | Define anti cancer agents with classification and recent development in cancer therapy. | 05 |
| | (c) | Write a note on Combinatorial Chemistry. | 05 |
| Q.7 | (a) | What is hypertension? Explain recent developments in antihypertensive drugs. | 06 |
| | (b) | Give synthesis of Clonidine and Lidocain. | 05 |
| | (c) | What are antimalarials? Classify and give synthesis of any one drug. | 05 |
