

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**M. Pharm. – SEMESTER – III • EXAMINATION – WINTER • 2014**

**Subject Code: 930101****Date: 06-12-2014****Subject Name: Advance Medicinal Chemistry****Time: 10:30 am - 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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|-------------|---|-----------|
| <b>Q.1</b>  | (a) Write a note on COX-2 inhibitors. Discuss alternate target for NSAIDS.                          | <b>08</b> |
|             | (b) Write in brief about Interferon.  | <b>03</b> |
|             | (c) Discuss SAR of tetracycline group of antibiotics.   | <b>05</b> |
| <b>Q.2</b>  | (a) Write note on immunosuppressive agents.   | <b>06</b> |
|             | (b) Discuss various glucocorticoids in detail.  | <b>05</b> |
|             | (c) Write note on HIV protease inhibitors   | <b>05</b> |
| <b>Q.3</b>  | (a) Discuss SAR of H <sub>1</sub> receptor blockers.  | <b>06</b> |
|             | (b) Write note on hypoglycemic agents.  | <b>05</b> |
|             | (c) Write note on combinatorial Chemistry.  | <b>05</b> |
| <b>Q.4</b>  | (a) Why therapy of tuberculosis is difficult? Discuss recent advances in therapy of TB.             | <b>06</b> |
|             | (b) Write synthesis of Isoniazide and Ethambutol.   | <b>05</b> |
|             | (c) Discuss recent advances in therapy of Neurodegenerative diseases.                               | <b>05</b> |
| <b>Q.5</b>  | (a) Give brief idea about micro organisms useful in synthesis of steroids. Write their limitations. | <b>06</b> |
|             | (b) Discuss recent advances in antiviral agents   | <b>06</b> |
|             | (c) Discuss about relaxin as a peptide drug.  | <b>04</b> |
| <b>Q. 6</b> | (a) Write in detail about peptidomimetics.  | <b>06</b> |
|             | (b) Write note on anti-cancer agents including classification and recent advancements.              | <b>07</b> |
|             | (c) Write in brief about microbes involved in enzyme immobilization Techniques.                     | <b>03</b> |
| <b>Q.7</b>  | (a) Discuss SAR of angiotensin receptor blockers.   | <b>05</b> |
|             | (b) Write synthesis of atorvastatin and Losartan.   | <b>08</b> |
|             | (c) Write note on High Throughputs Screening.   | <b>03</b> |

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