

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

Subject Code: 930101**Date: 22-05-2014****Subject Name: Advance 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) | Write in detail about use of microorganism in steroid synthesis with suitable examples | 08 |
| | (b) | Differentiate between parallel and split & mix combinatorial synthesis. | 08 |
| Q.2 | (a) | Write in detail about applications of combinatorial synthesis | 08 |
| | (b) | Discuss about recent advancement in antiarrhythmic agents. | 08 |
| Q.3 | (a) | What is combinatorial chemistry? Write in detail about solid phase combinatorial synthesis. | 08 |
| | (b) | Discuss structure, reactivity and stability of somatostatin in detail. | 08 |
| Q.4 | (a) | Write in detail about recently discovered azole antifungal agents. | 08 |
| | (b) | Enumerate various targets for oral antidiabetic activity and discuss any one target and recent drugs or investigational compounds acting on it. | 08 |
| Q.5 | (a) | Write in detail about recent drugs and investigational compounds used in alzheimers disease. | 08 |
| | (b) | Discuss the fourth and fifth generation cephalosporins and future developments in cephalosporin design. | 08 |
| Q. 6 | (a) | What is XDR and MDR tuberculosis? Discuss about recently discovered drugs and investigational compounds for the treatment of multidrug resistant tuberculosis. | 08 |
| | (b) | Discuss about recent developments in fluoroquinolones as antibacterials | 08 |
| Q.7 | (a) | Discuss various immunosuppressants | 08 |
| | (b) | What do you mean by peptidomimetics and discuss their types and applications in different therapy. | 08 |
