

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharmacy Sem-III Regular Examination January 2011

Subject code: 930101

Subject Name: Advanced Medicinal Chemistry

Date: 06 /01 /2011

Time: 10.30 am – 01.30 pm

Instructions:

Total Marks: 80

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Discuss chemistry and SAR of angiotensin receptor blockers **08**
(b) Write in detail about recently discovered antimetabolites as anticancer agents **05**
(c) Write about various methods for the synthesis of peptides **05**
- Q.2** (a) Write in detail about peptidomimetics **06**
(b) What is combinatorial chemistry? Write in detail about solid phase combinatorial synthesis **05**
(c) Differentiate between split & mix and parallel combinatorial synthesis **05**
- Q.3** (a) Discuss the use of microbes for the synthesis of steroids **06**
(b) Discuss the Chemistry and SAR of glucocorticoids and recently developed glucocorticoids **05**
(c) Discuss about recently discovered drugs and investigational compounds for the treatment of multidrug resistant tuberculosis **05**
- Q.4** (a) Discuss the fourth generation cephalosporins and future developments in cephalosporin design. **06**
(b) Write in detail about recent advances in antifungal agents. **05**
(c) Discuss the various targets for the oral hypoglycemic activity. **05**
- Q.5** (a) Discuss about recent advances in agents used to treat alzheimer's disease **06**
(b) Discuss the SAR and chemistry of fluoroquinolones and recent advances in this class. **05**
(c) Write in detail about various applications of combinatorial chemistry **05**
- Q.6** (a) Discuss SAR of H₁ receptor antagonists and newer second generation H₁ receptor blockers **06**
(b) Discuss various mineralocorticoids in detail **05**
(c) Discuss the various HIV protease inhibitors **05**
- Q.7** (a) Discuss about various immunosuppressants **06**
(b) Write in detail about GLP-1 analogues **05**
(c) Discuss SAR of tetracyclines and recently discovered tetracyclines. **05**
