

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.PHARM- SEM-III-EXAMINATION – MAY 2012

Subject code: 930101

Date: 18/05/2012

Subject Name: Advanced 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.

Q.1	(a)	What are the rational behind use of microorganism for drug synthesis? Explain in detail with suitable examples.	06
	(b)	Discuss in detail about Enzyme Immobilization Techniques.	05
	(c)	Discuss the use of microbes for the synthesis of antibiotics.	05
Q.2	(a)	Classify the cephalosporins and discuss future developments in cephalosporin design.	08
	(b)	Discuss the current and emerging targets for the oral hypoglycemic activity.	08
Q.3	(a)	What is combinatorial chemistry? Discuss about its importance in new drug discovery. What are its advantages over other drug discovery approaches?	06
	(b)	Write in detail about recent advances in antifungal agents.	05
	(c)	Write in detail about High Throughputs Screening (HTS).	05
Q.4	(a)	Discuss about recent advances in agents used to treat alzheimer's disease.	06
	(b)	Give detail account on Interferon and Insulin.	05
	(c)	Write a short note on peptidomimetics.	05
Q.5	(a)	What are NSAIDS? Discuss the emerging targets for anti inflammatory activity.	06
	(b)	Discuss the SAR of fluoroquinolones and recent advances in this class.	05
	(c)	What are neurodegenerative diseases? Discuss in detail about antiparkinson drugs.	05
Q. 6	(a)	What is (MDR-TB)? Discuss the investigational compounds for tretment of (MDR-TB).	06
	(b)	What is Cancer? Discuss the recent and future advances in its treatment.	05
	(c)	Discuss the Chemistry and SAR of glucocorticoids and recently developed glucocorticoids.	05
Q.7	(a)	Enlist the various targets for the treatment hypertension with suitable example from each class.	06
	(b)	What is atherosclerosis. Discuss the investigational targets for its treatment.	05
	(c)	Discuss about recent advances in agents used to treat malaria.	05
