Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. – SEMESTER – III • EXAMINATION – SUMMER • 2015

Subject Code: 930101 **Date: 13-05-2015**

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.**

Q.1	**(a)**	What do you mean by Combinatorial Chemistry? Explain its importance in organic synthesis.	**06**
	(b)	Application of combinatorial technique in peptide synthesis.	**05**
	(c)	What do you mean by HTS, explain its importance in screening methods?	**05**
Q.2	**(a)**	What are peptides, explain their chemistry and importance in drug action.	**06**
	(b)	Explain the method of synthesis of Insulin and Relaxin.	**05**
	(c)	What do you mean by peptidomimetics explain their importance in development of biopharmaceuticals.	**05**
Q.3	**(a)**	Explain use of microorganisms in synthesis of steroids.	**06**
	(b)	Explain in brief enzyme immobilization techniques.	**05**
	(c)	How do you synthesize antibiotics using microbes?	**05**
Q.4	**(a)**	What do you mean by neurodegenerative disorders? Explain recent advances in drug development.	**06**
	(b)	Classification of antialzheimers and antiparkinson drugs.	**05**
	(c)	Give synthesis of any one drugs in the class of antialzheimers and antiparkinson.	**05**
Q.5	**(a)**	What is hypertension? Explain recent developments in anti-hypertensive drugs.	**06**
	(b)	Classify antiarrhythymic drugs.	**05**
	(c)	Give synthesis of Lidocain and Clonidine.	**05**
Q. 6	**(a)**	Explain chemistry of Insulin.	**06**
	(b)	What are oral hypoglycemic agents? Classify with suitable examples.	**05**
	(c)	What are Immunomodulators? Explain with suitable examples.	**05**
Q.7	**(a)**	What is tuberculosis, explain recent advances in treatment of tuberculosis.	**06**
	(b)	What are antimalerials? Classify and give synthesis of any one drug.	**05**
	(c)	Explain anti cancer agents, classification and recent advances in cancer therapy.	**05**

****