Seat No.: _____ Enrolment No._____

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.**

Q.1	**(a)**	Write a note on COX-2 inhibitors. Discuss alternate target for NSAIDS.	**08**
	(b)	Write in brief about Interferon.	**03**
	(c)	Discuss SAR of tetracycline group of antibiotics.	**05**
Q.2	**(a)**	Write note on immunosuppressive agents.	**06**
	(b)	Discuss various glucocorticoids in detail.	**05**
	(c)	Write note on HIV protease inhibitors	**05**
Q.3	**(a)**	Discuss SAR of H_1 receptor blockers.	**06**
	(b)	Write note on hypoglycemic agents.	**05**
	(c)	Write note on combinatorial Chemistry.	**05**
Q.4	**(a)**	Why therapy of tuberculosis is dificult? Discuss recent advances in therapy of TB.	**06**
	(b)	Write synthesis of Isoniazide and Ethambutol.	**05**
	(c)	Discuss recent advances in therapy of Neurodegenerative diseases.	**05**
Q.5	**(a)**	Give brief idea about micro organisms useful in synthesis of steroids. Write their limitations.	**06**
	(b)	Discuss recent advances in antiviral agents	**06**
	(c)	Discuss about relaxin as a peptide drug.	**04**
Q. 6	**(a)**	Write in detail about peptidomimetics.	**06**
	(b)	Write note on anti-cancer agents including classification and recent advancements.	**07**
	(c)	Write in brief about microbes involved in enzyme immobilization Techniques.	**03**
Q.7	**(a)**	Discuss SAR of angiotensin receptor blockers.	**05**
	(b)	Write synthesis of atorvastatin and Losartan.	**08**
	(c)	Write note on High Throughputs Screening.	**03**

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