## **GUJARAT TECHNOLOGICAL UNIVERSITY** B. Pharm. – SEMESTER – VII • EXAMINATION – WINTER 2013

## Subject Code: 270003Date: 30-11-2013Subject Name: Pharmaceutical Chemistry-IX (Medicinal Chemistry)Time: 10.30 am - 01.30 pmTotal 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 hormones? Discuss nomenclature and stereochemistry of steroids.	06
	(b)	Define and classify antifungal agents. Write a note on azole derivatives used as antifungals.	05
	(c)	Discuss the chemistry of macrolide antibiotics.	05
Q.2	(a)	Write a note on immunosupressants	06
	(b)	Write down SAR of quinolones as antibacteirals	05
	(c)	Write synthesis of chloramphenicol and ciprofloxacin	05
Q.3	(a)	Discuss degradation of penicillin in detail	06
	(b)	Write down SAR of tetracyclines	05
	(c)	Write a note on short acting sulfonamides	05
Q.4	(a)	Discuss insulin and its preparations	06
	(b)	Write synthesis of chloroquine and mebendazole	05
	(c)	Classify anti-HIV agents and write a note on reverse transcriptase inhibitors	05
Q.5	(a)	Discuss about first line antituberculer agents	06
	(b)	Discuss the chemistry and SAR of estrogens	05
	(c)	Write synthesis of tolbutamide and isoniazid	05
Q. 6	(a)	Classify antiamoebic agents and discuss any one class in detail	06
	(b)	Write synthesis of sulphacetamide and clotrimazole	05
	(c)	Write a note on antithyroid drugs	05
Q. 7	(a)	Classify anticancer agents and write about any one class in detail	06
	(b)	Write synthesis of methotrexate and amantadine	05
	(c)	Write a note on third and fourth generation cephalosporins	05
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