http:/	/www.	gujara	atstudy	.com
	,	80,700		

Seat No.: Enrolment No.	
-------------------------	--

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**B.PHARM – SEMESTER – VII • EXAMINATION – WINTER – 2015** Subject Code: 270003 Date: 09/12/2015

**Subject Name: Pharmaceutical Chemistry - IX (Medicinal Chemistry) Total Marks: 80** 

Time: 10.30 AM to 1.30 PM

## **Instructions:** 1. Attempt any five questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Classify Quinolones with relevant examples. Discuss its mode of	06
	(b)	action.  Discuss the synergism of sulfonamides and folate reductase	05
	(c)	inhibitors. Give the synthesis of ciprofloxacin.	05
Q.2	(a)	Classify sulphonamides with relevant examples. Discuss the mode of action.	06
	(b)	Discuss the chemistry and SAR of sulphonamides.	05
	(c)	Give the scheme of synthesis of sulphamethoxazole and sulphaceamide.	05
Q.3	(a)	Discuss the structural features & different classes of $\beta$ lactam antibiotics with relevant examples.	06
	(b)	Discuss the SAR of Penicillins.	05
	(c)	Discuss the synergism of ampicillin with other drugs.	
Q.4	(a)	Discuss SAR of aminoglycosides antibiotics with relevant examples.	06
	(b)	Why tetracyclines are called so? Discuss their SAR.	05
	(c)	What are anthelmintics? Give the synthesis of albendazole.	05
Q.5	(a)	Give the classification of anticancer drugs. Give mechanism of action of vinca alkaloids and give synthesis of Tamoxifen.	06
	(b)	Give the classification of anti TB drugs with relevant examples.	05
	(c)	Discuss the synthesis of clotrimazole and fluconazole.	05
Q. 6	(a)	Discuss the steroid ring nomenclature, stereochemistry and structure.	06
	(b)	What are progestins? Give their SAR.	05
	(c)	Write a short note on antiviral therapy with examples of drugs used in antiretroviral therapy.	05
Q.7	(a)	Classify drugs used in type 2 diabetes and give synthesis of Tolbutamide.	06
	(b)	Write a short note on Immunomodulators.	05
	(c)	Give classification of antithyroid drugs. Write synthesis of Carbimazole and Thyroxine.	05

\*\*\*\*\*\*