Seat No.:	Enrolment No.
SAOT NO:	Hnrolmant No

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER - VII • EXAMINATION - SUMMER • 2015

Date: 13-05-2015

Subject Code: 270003

Ti	me: 02 structio		
	2. M	tempt any five questions. ake suitable assumptions wherever necessary. gures to the right indicate full marks.	
Q.1	(a)	Give IUPAC name, uses and synthesis of any two of the following compounds: (i) Sulphasalazine (ii) Ciprofloacin (iii) Trimethoprim	06
	(b)	(iii) Trimethoprim Write machenism of estion and adverse effects of sulphonomides	05
	(b) (c)	Write mechanism of action and adverse effects of sulphonamides. What are Quinolones? Write structure activity relationship of Quinolones.	05 05
Q.2	(a)	What are cephalosporins? How they differ from penicillins? Give SAR of cephalosporins.	06
	(b)	Classify Penicillins with examples on the basis of mechanism of action. Why penicillin is not active against penicillinase secreting microorganisms?	05
	(c)	Give IUPAC name and chemical synthesis of chloramphenicol.	05
Q.3	(a)	Give synthesis of the following compounds: (i) Isoniazid (ii) Ethambutol (iii) Clofazimine	06
	(b)	Write SAR of Tetracyclines.	05
	(c)	What are antifungal agents? How they act? Give synthesis of Ketoconazole.	05
Q.4	(a)	Give life cycle of malarial parasite. Classify antimalarials with examples. Give synthesis of Primaquine.	06
	(b)	What is amoebiasis? How antiamoebics act? Give synthesis of Metronidazole.	05
	(c)	Write short note on Anthelmintics.	05
Q.5	(a)	What is neoplasm? Give mechanism of action of anticancer drugs.	06
	(b)	Give IUPAC name and synthesis of the following drugs: (i) Fluorouracil (ii) Cyclophosphamide	05
	(c)	Write a note on ani-HIV agents.	05
Q. 6	(a)	Discuss Diabetes mellitus. Classify antidiabetics with examples. Give synthesis of Metformin.	06
	(b) (c)	What are different adrenocorticoid hormones? Give their structure and functions. What is Hyper and hypothyroidism? What diseases takes place by hypothyroidism?	05 05
Q. 7	(a)	What is progesterone? Explain its functions.	06
	(b)	What are anabolic agents? Give SAR of testosterone.	05
	(c)	What are steroids? Why steroid therapy is not recommended for longer time.	05
