

GUJARAT TECHNOLOGICAL UNIVERSITY**B.PHARM. - SEMESTER- VII • EXAMINATION – SUMMER-2016****Subject Code: 270003****Date: 07/05/2016****Subject Name: Pharmaceutical Chemistry – IX (Medicinal Chemistry)****Time: 2:30 PM to 5:30 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) Discuss antimetabolite class of anticancer agents in detail.	06
	(b) Write down SAR of penicillins.	05
	(c) Discuss the chemistry of aminoglycoside antibiotics.	05
Q.2	(a) Write a note on oral hypoglycemic agents.	06
	(b) Discuss SAR of tetracyclines.	05
	(c) Write synthesis of chloramphenicol and ciprofloxacin.	05
Q.3	(a) Write a note on immunosuppressants.	06
	(b) Write synthesis of fluconazole and norfloxacin.	05
	(c) Discuss SAR of macrolide antibiotics.	05
Q.4	(a) Classify antifungal agents and discuss any one class in detail.	06
	(b) Write synthesis of ethambutol and thiotepa.	05
	(c) Write a note on thyroid replacement therapy.	05
Q.5	(a) Discuss various antileprotic agents.	06
	(b) Discuss the SAR of sulfonamides and write structures of topical sulfonamides.	05
	(c) Write synthesis of metformin and metronidazole.	05
Q.6	(a) Write a note on anthelmintic agents.	06
	(b) Discuss SAR of quinolines as antimalarials.	05
	(c) Write synthesis of sulfamethoxazole and carbimazole.	05
Q.7	(a) Classify anti-HIV agents and write a note on protease inhibitors.	06
	(b) Write synthesis of methotrexate and amantadine.	05
	(c) Discuss SAR of adrenocorticoids in detail.	05
