Seat No.:	Enrolment No.
Jour 110	

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm-Semester-VII May-2012 Examination Subject code: 270003

Subject Name: Pharmaceutical Chemistry IX (Medicinal chemistry)

Time: 02:30pm to 5:30pm Date: 25-05-2012 Total Marks: 80

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1. Attempt any five question

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

Q-1	a b c	Define and classify antibiotics. Discuss SAR of penicillin. Discuss chemistry, SAR and mechanism of action of sulfonamide. Give synthesis of penicillin G and sulphamethoxazole.				
Q-2	a b c	What are hormones? Discuss nomenclature and stereochemistry of steroids. What are hypoglycemic agents? Give detailed account of oral hypoglycemic agents. Give synthesis of tolbutamide, thyroxine and carbimazole.	06 05 05			
Q-3	a b c	What are cephalosporins? Discuss the acid and basic instability of betalactam antibiotics. Write a note on antifungal agents. Give synthesis of mebendazole, metronidazole and isonidazid.	06 05 05			
Q-4	a b c	action alkylating agents. Give brief account of natural drugs used in cancer therapy.				
Q-5	a b c	What are antiprotozoal agents? Discuss the chemistry and SAR of 4-aminoquinolines. Define and classify amoebiasis. Write a note on imidazole derivatives used as antiamoebic agents. Write a note on macrolide antibiotics.				
Q-6	a b c	What are aminoglycoside antibiotics? Give chemistry and SAR of aminoglycoside. Discuss chemistry and SAR of glucocorticoids. Discuss SAR of tetracycline.	06 05 05			
Q-7	b	What are anti-TB agents? Give first line and second line drugs used in TB. Why viral therapy is difficult? Classify antiviral agents with examples. Write a note on reverse transcriptase inhibitors. Write a note on fluoroguinolones	06 05			
