Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITYB. Pharm – SEMESTER VII • EXAMINATION – WINTER 2016

Subject Code: 270003	Date: 21/11/2016
Subject Name: PHARMACEUTICAL CHEMISTRY-	-IX (MEDICINAL CHEMISTRY)
Time: 10.30 am to 01.30 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) (b) (c)	Write SAR of Sulfonamides. Write mechanism of action uses and side effect of Fluoroquinolones. Write IUPAC name and Synthesis of following (Any two) 1. Trimethoprim 2. Ciprofloxacin 3. Sulfacetamide	06 05 05
Q.2	(a) (b) (c)	Write detail SAR of Cefalosprins. Write Mechanism of action, uses, side effect and degradation of penicillins. What detail notes on macrolide antibiotics.	06 05 05
Q.3	(a) (b) (c)	Explain SAR of tetracyclines in detail. Briefly explain aminoglycoside antibiotics. Write IUPAC name and Synthesis of following (Any two) 1. Chloramphenicol 2. Ethambutol 3. Primaquine	06 05 05
Q.4	(a) (b) (c)	What are antitubercular agents? Briefly explain drugs used in Multi-Drug Resistance Tuberculosis (MDR-TB). Write mechanism of action, uses and side effect of antifungal agents Write IUPAC name and Synthesis of following (Any two) 1. Fluconazole 2. Metronidazole 3. Mebendazole	06 05 05
Q.5	(a) (b) (c)	Explain briefly drugs used as anti-malarial agents. Write detail note on drugs used in treatment of HIV infection Write short notes on antithyroid agents.	06 05 05
Q. 6	(a) (b) (c)	Write detail notes on alkylating anticancer agents. Briefly explain immune suppressive agents. Write IUPAC name and Synthesis of following (Any two) 1. Chlorambucil 2. Methotrexate 3. Metformin	06 05 05
Q.7	(a) (b) (c)	What are steroid? Write Nomenclature and stereochemistry of steroids in detail. Write SAR of glucocorticoids Briefly explain oral hypoglycemic agents.	06 05 05
