

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