

Seat No.: _____

Enrolment No. _____

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.

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|-------------|---|-----------|
| 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)
1. Trimethoprim 2. Ciprofloxacin 3. Sulfacetamide | 05 |
| 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)
1. Chloramphenicol 2. Ethambutol 3. Primaquine | 05 |
| 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)
1. Fluconazole 2. Metronidazole 3. Mebendazole | 05 |
| 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)
1. Chlorambucil 2. Methotrexate 3. Metformin | 05 |
| 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 |
