

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER-VII • EXAMINATION – WINTER-2017

Subject Code: 270003

Date: 08-11-2017

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) Differentiate between antibacterial and antibiotics? Give SAR of sulfonamide | 06 |
| | (b) What are flouroquinolones? Discuss its SAR. | 05 |
| | (c) Give synthesis of ofloxacin and sulfacetamide. | 05 |
| Q.2 | (a) What are beta lactam antibiotics? Explain chemistry of penicillin. | 06 |
| | (b) What is different between penicillin and cephalosporin? Which is better? | 05 |
| | (c) Give synthesis of chloramphenicol. What are its uses and side effect? | 05 |
| Q.3 | (a) What are aminoglycosides? Explain its chemistry. | 06 |
| | (b) Discuss the SAR of Tetracycline. | 05 |
| | (c) What are macrolides antibiotics? Why azithromycin is better than erythromycin? | 05 |
| Q.4 | (a) Which bacteria cause TB? What are the types of TB? | 06 |
| | (b) Classify the first line, second line drugs used for TB with structure. | 05 |
| | (c) Give synthesis of INH and PAS. | 05 |
| Q.5 | (a) Write a short note on antifungal agents. | 06 |
| | (b) Write a short note on antiamoebic agents. | 05 |
| | (c) Outline synthesis of metronidazole and albendazole. | 05 |
| Q. 6 | (a) Classify various antimalarial drugs? Give structure of one drug from each class. | 06 |
| | (b) Give SAR of 4-aminoquinoline as antimalarial agents. | 05 |
| | (c) Classify various antineoplastic agents. | 05 |
| Q.7 | (a) What are different classes of antidiabetic agents? Give synthesis of glipizide. | 06 |
| | (b) Write a short note on chemistry and nomenclature of steroids. | 05 |
| | (c) Write a short note on immunomodulatory and antithyroid agents. | 05 |
