

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-VII EXAMINATION – WINTER-2016

Subject Code: 2270004

Date: 23/11/2016

Subject Name: Pharmacology and Pharmacotherapeutics-III

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) Classify antimicrobial drugs according to their mechanism of action. Add a note on combined use of antimicrobials. | 06 |
| | (b) Classify sulfonamides. Explain its mechanism of action and adverse effects. | 05 |
| | (c) Write a note on cephalosporins. | 05 |
| Q.2 | (a) Discuss complete pharmacology of penicillin-G. | 06 |
| | (b) Enlist aminoglycoside antibiotics. Discuss its mechanism of action, antibacterial spectrum and adverse effects. | 05 |
| | (c) Write about mechanism of action, pharmacokinetics and adverse effects of tetracyclines. | 05 |
| Q.3 | (a) Classify anticancer drugs. Elaborate complete pharmacology of any one drug pertaining to this class. | 06 |
| | (b) Discuss complete pharmacology of mebendazole. | 05 |
| | (c) Classify antifungal drugs. Discuss pharmacology of any one drug. | 05 |
| Q.4 | (a) Give full name of DOT & MDR-TB. Write about management and treatment of tuberculosis. | 06 |
| | (b) Write adverse effects of following :
1. Chloramphenicol 2. Vancomycin | 05 |
| | (c) Discuss pathogenesis of HIV virus with diagram. Which parameters serve as biomarkers to check progression of HIV infection to AIDS? Discuss role of protease inhibitors in management of AIDS. | 05 |
| Q.5 | (a) Classify urinary tract infection. Write about complicated urinary tract infection. | 06 |
| | (b) Define acute & chronic leukemia. Discuss etiology, pathophysiology, symptoms & diagnosis of chronic leukemia. | 05 |
| | (c) Write about symptoms, diagnosis and treatment of malaria along with the name of causative agents. | 05 |
| Q. 6 | (a) Explain TNM staging in breast cancer. Discuss role of biological and hormonal therapy in management of breast cancer. | 06 |
| | (b) Enumerate respiratory tract infections. Discuss pathophysiological aspects of influenza. | 05 |
| | (c) Write about epidemiology, symptoms and management of dengue. Why it proves fatal if treatment is delayed? | 05 |
| Q.7 | (a) Write about symptoms, diagnosis and treatment of syphilis. | 06 |
| | (b) Glucose is an important ingredient of oral rehydration solution, why? Add a note on inflammatory gastro enteritis. | 05 |
| | (c) Discuss epidemiology, pathophysiology & symptoms of meningitis. | 05 |