

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