

**GUJARAT TECHNOLOGICAL UNIVERSITY****B.PHARM. - SEMESTER- VII • EXAMINATION – SUMMER-2016****Subject Code: 2270004****Date: 09/05/2016****Subject Name: Pharmacology and Pharmacotherapeutics - III****Time: 2:30 PM to 5:30 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) Classify anticancer drugs. Write short note on anticancer drugs affecting various metabolic pathways. **06**
- (b) What is drug resistance? Write various mechanisms of transfer of resistance genes within and among bacteria. Write in general mechanisms of drug resistance. **05**
- (c) Write antibacterial spectrum, mechanism of action, adverse effects and uses of tetracycline. **05**
- Q.2** (a) Write advantages and disadvantages of antimicrobial drug combinations **06**
- (b) Write detailed note on leptospirosis **05**
- (c) Define and classify leukemia. Write diagnosis and treatment of leukemia. **05**
- Q.3** (a) Write etiology and diagnosis of tuberculosis. What is DOTS PLUS therapy? **06**
- (b) Write a note on DHFR inhibitors used in the treatment of bacterial and protozoal infections and cancer. **05**
- (c) Match the following appropriately: **05**
- | A               | B                  |
|-----------------|--------------------|
| Cervical cancer | W.bancrofti        |
| Dengue fever    | Treponema pallidum |
| Filariasis      | CCHF virus         |
| Syphillis       | Human papilloma    |
| Congo fever     | Aedes Aegypti      |
- Q.4** (a) Write detailed note on respiratory infections caused by viruses. **06**
- (b) Write a note on tissue schizonticidal agents **05**
- (c) Write mechanism of action and adverse effects of chloramphenicol and aminoglycosides. **05**
- Q.5** (a) Write mechanism of action, uses and drug interactions of macrolides. **06**
- (b) Fungal infections are more prevalent nowadays. Why? Classify antifungal agents. Write detail of any one. **05**
- (c) Write a note on anthelmintics. **05**
- Q. 6** (a) Write detailed lifecycle of *Entamoeba histolytica*. Detail luminal amoebicidal agents. **06**
- (b) Write signs and symptoms and diagnosis of urinary tract infections. Write note on treatment of complicated UTI. **05**
- (c) Write etiology, symptoms and treatment of meningitis. **05**
- Q.7** (a) Write short note on anti-HIV agents. **06**
- (b) Write etiology, pathogenesis, diagnosis and management of breast cancer. **05**
- (c) Write short note on stem cell transplantation. **05**