

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 7 EXAMINATION – SUMMER -2020**Subject Code: 2270004****Date:29-10-2020****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) Describe the clinical signs and symptoms, diagnostic tests and management of Tuberculosis. **06**
(b) What is co-trimoxazole? Explain its mechanism of action. Discuss its adverse effects and therapeutic uses. **05**
(c) Write a short note on: Swine flu. **05**
- Q.2** (a) Classify antimicrobial agents based on their mechanism of action and give examples of each class. **06**
(b) Give properties of cancer cells. Explain mechanisms for development of resistance to anticancer drugs. **05**
(c) Write a short note on: Dengue. **05**
- Q.3** (a) Define Meningitis. Give its etiology, clinical features and tests for diagnosis. **06**
(b) Classify antimetabolites. Explain their mechanism of action and give therapeutic uses of Methotrexate. **05**
(c) Write a short note on: Bacterial Resistance. **05**
- Q.4** (a) Discuss the life cycle of malarial parasite. Describe the mechanism of action, adverse effects and therapeutic uses of Chloroquine. **06**
(b) Explain in brief diagnosis and staging of breast cancer and justify the use of androgens and antioestrogens in its treatment. **05**
(c) Write a short note on: Cephalosporins **05**
- Q.5** (a) Define Urinary Tract Infection (UTI). Explain the causes, clinical features, tests for diagnosis and management of complicated UTI. **06**
(b) Describe the risk factors, laboratory findings and treatment of Acute Leukaemia. **05**
(c) Write a short note on: Multi Drug Therapy for Leprosy. **05**
- Q.6** (a) Discuss the pathophysiology of AIDS and give tests for its diagnosis. **06**
(b) Discuss the mechanism of action of Penicillin. Explain anaphylactic shock produced by Penicillin and give its treatment. **05**
(c) Explain the following adverse effects and name the antimicrobial agent causing them: (i) Crystalluria (ii) Gray Baby Syndrome **05**
- Q.7** (a) Give mechanism of action and therapeutic uses of the following drugs: **06**
(i) Tamoxifen (ii) Metronidazole (iii) Tetracycline
(b) Explain giving reason: **05**
(i) Tetracycline should not be administered during pregnancy and in infants
(ii) Amoxycillin is given in combination with Clavulanic acid
- (c) Write a short note on: Prostate Cancer. **05**