

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Pharm- SEMESTER – I • EXAMINATION – SUMMER -2018

Subject Code: 910203**Date: 07/05/2018****Subject Name: Advances in Pharmacology****Time: 02:30PM TO 05:30PM****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) What is DOTS? Give recent trends in the treatment of tuberculosis. **06**
(b) Write mechanism of action, pharmacokinetic and therapeutic uses of Azithromycin. **05**
(c) Explain the role of immunosuppressant's in organ transplantations giving suitable examples. **05**
- Q.2** (a) Explain bacterial resistance to antimicrobials. **06**
(b) Give advances for the treatment of superficial fungal infections. **05**
(c) Discuss pharmacological actions of adrenaline. **05**
- Q.3** (a) Discuss recent trends and developments in the treatment of malaria. **06**
(b) Classify α adrenoceptor antagonists. Describe pharmacology of prazosin. **05**
(c) Write a note on Co-trimoxazole. **05**
- Q.4** (a) Write signal transduction mechanism and therapeutic implication of drugs acting through muscarinic receptor subtype. **06**
(b) Discuss pharmacology of neuromuscular blockers. **05**
(c) Classify cephalosporins. Write the difference among them according to pharmacokinetic properties and therapeutic uses. **05**
- Q.5** (a) What is tumor? Differentiate benign tumor and cancer. Enlist the remedies for preventing side effects of cancer chemotherapy and radiation therapy. **06**
(b) Discuss clinical uses and side effects of atropine. **05**
(c) Write on clinical applications of eicosanoids giving suitable examples. **05**
- Q.6** (a) What are HAART regimen? Write a note on zidovudine. **06**
(b) Give difference between sympathomimetics and parasympathomimetics. **05**
(c) Explain mechanisms for the therapeutic action and adverse effects of chloramphenicol. **05**
- Q.7** (a) Discuss the current approaches in the management of sexually transmitted disease. **06**
(b) Discuss the role of 5-HT in pharmacology and give therapeutic applications of 5-HT receptor antagonists. **05**
(c) Name antimicrobial agents producing side effects **05**
(i) Ototoxicity (ii) Cinchonism (iii) Crystalluria (iv) Fanconi like syndrome
(v) Orange – red coloration in urine
