

GUJARAT TECHNOLOGICAL UNIVERSITY**M. Pharm. - SEMESTER- I EXAMINATION – SUMMER 2016****Subject Code: 910203****Date: 30/05/2016****Subject Name: Advances in Pharmacology****Time: 10:30 AM to 1:30 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) Enlist muscarinic receptors. Explain in detail pharmacological actions and therapeutic uses of muscarinic receptor antagonists. **06**
- (b) Discuss in brief about pharmacological actions, therapeutic uses and adverse effects of β_2 agonists. **05**
- (c) Write a short note on pharmacological actions, adverse effects and therapeutic actions of anti-histaminic drugs. **05**
- Q.2** (a) Give rationale for following:- **06**
- i) Methyldopa in hypertension
- ii) Dantrolene sodium in spastic cerebral palsy
- iii) Tamsulosin in benign prostate hypertrophy
- (b) Enlist prostanoids. Describe the therapeutic applications of prostaglandins. **05**
- (c) Write a note on mechanism of action, therapeutic uses and adverse effects of cholinesterase inhibitors. **05**
- Q.3** (a) Classify antimicrobial agents based on mechanism of action. Write antimicrobial spectrum and therapeutic indications of linezolid. **06**
- (b) Explain in brief about mechanisms of resistance development to antibiotics. **05**
- (c) Write a note on Co-trimoxazole. **05**
- Q.4** (a) What is DOTS? Give recent trends in the treatment of tuberculosis. **06**
- (b) Describe mechanism of action, spectrum of activity, therapeutic uses and adverse effects of Streptomycin. **05**
- (c) Write a short note on Antifungal antibiotics. **05**
- Q.5** (a) Classify anticancer drugs. Describe the role of hormones in cancer chemotherapy. **06**
- (b) Give examples of newer macrolide antibiotics. Write its mechanism of action, antibacterial spectrum and uses. **05**
- (c) Explain in brief about on multi drug therapy in leprosy. **05**
- Q.6** (a) Classify immunosuppressants. Discuss the role of immunosuppressants in organ transplantations giving suitable examples. **06**
- (b) Explain recent advances in antiviral therapy with special reference to the treatment of AIDS. **05**
- (c) Write a short note on imidazole derivatives used in treatment of amoebiasis. **05**
- Q.7** (a) Give clinical classification of antimalarial drugs. Explain mechanism of action, therapeutic uses and adverse effects of Artemisinin. **06**
- (b) Write Mechanism of action of:- **05**
- i) Moxifloxacin
- ii) Ivermectin
- (c) Describe various regimens for the treatment of Sexually transmitted diseases. **05**
