

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M.Pharm Semester –I Examination Feb. - 2012

Subject code: 910203

Date: 15/02/2012

Subject Name: Advances in Pharmacology

Time: 10.30 am – 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.**

- Q.1** (a) Write signal transduction mechanism and therapeutic implication of drugs acting through muscarinic receptor subtype. **06**
(b) Give classification of antimicrobial agents based on mechanism of action. Write therapeutic uses of drugs inhibiting DNA gyrase. **05**
(c) Give biosynthesis of Eicosanoids. Explain therapeutic significance of eicosanoid synthesis inhibitors. **05**
- Q.2** (a) Give recent advances for the treatment of Malaria. **06**
(b) Explain role of 5-HT modulators in treatment of disorders of central nervous system. **05**
(c) Give detail classification of cancer. Write about cytotoxic antibiotics. **05**
- Q.3** (a) Write characteristics and therapeutic uses of all generations of Cephalosporin. **06**
(b) Explain therapeutic significance of histamine receptor antagonists in various disorders. Enumerate their common adverse effects. **05**
(c) Write mechanism of action, toxicity and therapeutic uses of Tetracycline. **05**
- Q.4** (a) Explain role of Immunomodulators in various disorders. **06**
(b) Write mechanism of action, pharmacokinetic and therapeutic uses of Azithromycin. **05**
(c) Write about recent developments in antiviral therapy. **05**
- Q.5** (a) Give pharmacological properties and therapeutic uses of synthetic and semisynthetic substitute of belladonna alkaloid. **06**
(b) Write a note on 'co-trimoxazole'. **05**
(c) Give advances for the treatment of superficial fungal infections. **05**
- Q. 6** (a) Give classification semisynthetic penicillin. Write antimicrobial spectrum and therapeutic indications of Aminopenicillin. **06**
(b) Explain therapeutic implication of adrenergic receptor antagonists. **05**
(c) Write about advances in pharmacotherapy of tuberculosis. **05**
- Q.7** Write short notes on
(a) Skeletal muscle relaxants **04**
(b) Advances in therapy of AIDS **04**
(c) Bradykinin **04**
(d) Aminoglycoside antibiotics **04**
