

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. Sem - IV Examination June- 2011

Subject code: 240005

Subject Name: Pharmacology-I

Date:10/06/2011

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) What do you understand by apparent volume of distribution? Explain the factors which affect the drug distribution. **06**
(b) Write a note on “Mixed function oxidases” involved in Biotransformation. **05**
(c) Write a note on Signal transduction mechanism. **05**
- Q.2** (a) Define Drug interactions. Explain the Pharmacodynamic drug interactions **06**
(b) Describe the factors modifying drug effects **05**
(c) What are the salient features of phase – I clinical trial **05**
- Q.3** (a) Classify Sympathomimetics with examples. Describe how the adrenaline is synthesized, released and are destroyed in the body. **06**
(b) Write the Mechanism of action and Therapeutic applications of adrenergic drugs. **05**
(c) Write the pharmacological effects and uses of α blockers **05**
- Q.4** (a) Write the classifications of Muscarinic antagonists. Discuss the Mechanism of actions and Therapeutic uses of anti-muscarinics. **06**
(b) Discuss the drugs used in the management of Glaucoma **05**
(c) Discuss the pharmacological actions of Nicotine **05**
- Q.5** (a) Discuss in detail the pharmacological actions, adverse effects and clinical uses of Ephedrine. **06**
(b) Write a note on atropine poisonings and its treatment. **05**
(c) What is Myasthenia gravis? Discuss its drug therapy. **05**
- Q. 6** (a) What are Autocoids? Discuss the pharmacological actions of Lipid derived autocoids **06**
(b) Classify H1 receptor antagonist with examples based on their clinical uses? Explain the mechanism of action & therapeutic uses of antihistamines? **05**
(c) Write a note on PAF **05**
- Q.7** (a) What is drug dependence? What are its characteristic features? Discuss the psychological factors involved in drug dependence? **06**
(b) Write a note on Ganglionic blockers **05**
(c) Write a note on centrally acting muscle relaxants **05**
