

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharmacy Sem-I Regular / Remedial Examination January/February 2011

Subject code: 910203

Subject Name: Advances in Pharmacology

Date: 03 /02 /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) Write a note on Indirectly acting sympathomimetics. **06**
(b) Describe the role of hormones in cancer chemotherapy. **05**
(c) Write mechanism of action, therapeutic uses and adverse effects of Mefloquine. **05**
- Q.2** (a) Describe mechanism of action, spectrum of activity, therapeutic uses and adverse effects of Streptomycin. **06**
(b) Describe pharmacotherapeutic role of parasympatholytics. **05**
(c) Write a note on semisynthetic penicillins. **05**
- Q.3** (a) Write a note on Immunosuppressants with special emphasis on their use in rheumatoid arthritis. **06**
(b) Describe significance of Eicosanoids in pharmacotherapy. **05**
(c) Write a note on multi drug therapy in leprosy. **05**
- Q.4** (a) Describe pharmacological actions, therapeutic uses and adverse effects of β_2 agonists. **06**
(b) Write a note on Co-trimoxazole. **05**
(c) Write notes on following: **05**
1) Anticancer antibiotics
2) Plant derived anticancer drugs
- Q.5** (a) Describe advances in antiviral drugs with special reference to the treatment of AIDS **06**
(b) Highlight adverse effects and therapeutic uses of Ganglion blockers **05**
(c) Discuss adverse effects of Tetracyclins **05**
- Q.6** (a) Comment on following: **06**
1) Neostigmine reverses action of d-tubocurarine but potentiates that of Succinylcholine.
2) Edrophonium is used in differential diagnosis of Myasthenia Gravis and cholinergic crisis.
3) Acetylcholine is not used therapeutically.
(b) Differentiate between the following: **05**
1) Amphotericin B and Ketoconazole
2) Cephalosporin and ceftriaxone
(c) Write a note on urinary antiseptics **05**
- Q.7** (a) Write short notes on following with reference to the chemotherapeutic agents **06**
1) Drug Resistance
2) Super infection
3) Hypersensitivity
(b) Describe mechanism of action, pharmacokinetics, Drug interactions and adverse effects of Isoniazid **05**
(c) Classify α adrenoceptor antagonists. Describe pharmacology of prazosin. **05**
