

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. – SEMESTER – I • EXAMINATION – WINTER 2013

Subject Code: 910203

Date: 26-12-2013

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 in detail about anticholinesterase poisoning and its treatment. **06**
(b) Explain the role of immunosuppressant's in organ transplantations giving suitable examples. **05**
(c) State whether the following statement is true or false with suitable justification: **05**
"Cephalosporins are generally well tolerated but are more toxic than penicillin."
- Q.2** (a) Write the therapeutic uses, contraindications and interactions of anticholinergic agents **06**
(b) Give recent trends in the treatment of tuberculosis. **05**
(c) Enlist various antimetabolites used in treatment of cancer and describe their pharmacology in detail. **05**
- Q.3** (a) Write a short note on anorectic agents. **06**
(b) Explain various problems that arise with the use of antimicrobial agents. **05**
(c) Give examples of newer macrolide antibiotics and its mechanism of action, antibacterial spectrum and its uses. **05**
- Q.4** (a) Give the current choice of drug for worm infestations common in Indian Subcontinent, with detailed insights into pharmacology. **06**
(b) Describe the general principle in chemotherapy of cancer. **05**
(c) Write a short note on drug used for the treatment of systemic mycoses. **05**
- Q.5** (a) Describe the Mechanism of action, mechanism of resistance and shared toxicities of Aminoglycoside antibiotics. **06**
(b) Write a short note on adrenergic antagonist capable of blocking both alpha and beta adrenergic receptors. **05**
(c) Write briefly on Artemisinin-based combination therapy for the treatment of uncomplicated falciparum malaria. **05**
- Q.6** (a) Describe the distinctive features pharmacological actions of histamine through three types of histaminergic receptors. **06**
(b) Explain various regimens for the treatment of Sexually transmitted diseases **05**
(c) Differentiate between the following: **05**
i) Depolarizing and Non-Depolarizing Neuromuscular blockers
ii) Centrally acting and peripherally acting Muscle relaxants
- Q.7** (a) Describe the pharmacological actions of major prostaglandins. **06**
(b) Write a brief account on cytotoxic immunosuppressant's. **05**
(c) Classify various therapeutic agents preferred for the treatment and prophylaxis of HIV infection. Also explain the recent trends for the same. **05**
