Seat No.: ____

Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

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

St	ıb	ject	Code:	910203	
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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.
- (a) Write in detail about anticholinesterase poisoning and its treatment. 06 Q.1
 - Explain the role of immunosuppressant's in organ transplantations giving suitable (b) 05 examples.
 - State whether the following statement is true or false with suitable justification: 05 (c) "Cephalosporins are generally well tolerated but are more toxic than penicillin."
- Write the therapeutic uses, contraindications and interactions of anticholinergic Q.2 (a) **06** agents 05
 - Give recent trends in the treatment of tuberculosis. (b)
 - Enlist various antimetabolites used in treatment of cancer and describe their 05 (c) pharmacology in detail.
- **Q.3** Write a short note on anorectic agents. 06 (a) (b) Explain various problems that arise with the use of antimicrobial agents. 05 Give examples of newer macrolide antibiotics and its mechanism of action, 05 (c) antibacterial spectrum and its uses.
- **Q.4** (a) Give the current choice of drug for worm infestations common in Indian 06 Subcontinent, with detailed insights into pharmacology.
 - Describe the general principle in chemotherapy of cancer. 05 (b)
 - Write a short note on drug used for the treatment of systemic mycoses. (c) 05
- Describe the Mechanism of action, mechanism of resistance and shared toxicities Q.5 06 (a) of Aminoglycoside antibiotics.
 - (b) Write a short note on adrenergic antagonist capable of blocking both alpha and 05 beta adrenergic receptors.
 - Write briefly on Artemisinin-based combination therapy for the treatment of 05 (c) uncomplicated falciparum malaria.
- **Q.6** (a) Describe the distinctive features pharmacological actions of histamine through 06 three types of histaminergic receptors.
 - Explain various regimens for the treatment of Sexually transmitted diseases (b) 05 05
 - Differentiate between the following: (c)
 - Depolarizing and Non-Depolarizing Neuromuscular blockers i)
 - Centrally acting and peripherally acting Muscle relaxants ii)
- **Q.7** Describe the pharmacological actions of major prostaglandins. 06 (a) 05
 - Write a brief account on cytotoxic immunosuppressant's. (b)
 - (c) Classify various therapeutic agents preferred for the treatment and prophylaxis of 05 HIV infection. Also explain the recent trends for the same.