

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharmacy Sem-I Examination January 2010

Subject code: 910203

Subject Name: Advances in Pharmacology

Date: 30 / 01 / 2010

Time: 12.00 – 3.00 pm

Instructions:

Total Marks: 80

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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|------------|---|-----------|
| Q.1 | (a) Describe the newer trends for the treatment of cancer. | 06 |
| | (b) Write a note on HAART. | 05 |
| | (c) Describe pharmacological significance of cholinesterase inhibitors. | 05 |
| Q.2 | (a) Enumerate immunomodulators and their significance. | 06 |
| | (b) Classify anti-fungal drugs and describe in detail about Ketoconazole. | 05 |
| | (c) Write a note on hypersensitivity reactions. | 05 |
| Q.3 | (a) Write antibacterial spectrum, mechanism of action, pharmacokinetic and therapeutic uses of Fluoroquinolones. | 06 |
| | (b) Describe the pharmacological actions and therapeutic uses of non depolarizing skeletal muscle relaxants. | 05 |
| | (c) Write a note on Carbapenems and Monobactams | 05 |
| Q.4 | (a) Enlist therapeutic uses of adrenergic drugs based on receptor subtype. | 06 |
| | (b) Describe the significance of DOT in tuberculosis. | 05 |
| | (c) Write mechanism of action, therapeutic uses and adverse effects of Sulphonamides. | 05 |
| Q.5 | (a) Describe various mechanisms of bacterial resistance to antimicrobial drugs giving suitable examples. | 06 |
| | (b) Describe therapeutic uses of prostaglandins. | 05 |
| | (c) Differentiate between the following
i) Chloramphenicol and Tetracycline
ii) Ampicillin and Amoxicillin | 05 |
| Q.6 | (a) Enumerate various anti-microbial agents acting through inhibition of protein synthesis along with their side effects. | 06 |
| | (b) Justify the therapeutic uses of parasympatholytics. | 05 |
| | (c) Describe the pharmacological significance of Artemisinin derivatives in the treatment of Malaria | 05 |
| Q.7 | (a) Describe the significance of serotonin in pharmacotherapy. | 06 |
| | (b) Write a note on pharmacotherapy of Glaucoma. | 05 |
| | (c) Describe the pharmacotherapy for multibacillary and paucibacillary leprosy. | 05 |
