

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2014

Subject Code: 910203

Date: 09-01-2015

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) Classify β adrenoceptor antagonists. Describe role of β_3 adrenoceptors in various diseases. **06**
(b) Enlist antimalarials. Write a note on artemisinin. **05**
(c) Justify following : **05**
(i) Mesna is given with cyclophosphamide.
(ii) Pyridoxine is given with isoniazide.
- Q.2** (a) Discuss histamine receptors, their distribution, and post receptor mechanism. **06**
(b) Enlist immunosuppressants. Write a note on cyclosporin. **05**
(c) Write mechanism of action and uses of levamisole. **05**
- Q.3** (a) Discuss hormones and hormone antagonists used in cancer chemotherapy. Write a note on tamoxifen. **06**
(b) Write mechanism of action and uses of fluconazole. **05**
(c) Discuss therapeutic uses of cholinesterase inhibitors. **05**
- Q.4** (a) Write on clinical applications of eicosanoids giving suitable examples. **06**
(b) Write mechanism of action and uses of levofloxacin. **05**
(c) Write therapeutic uses of sympathomimetics. **05**
- Q.5** (a) Explain bacterial resistance to antimicrobials. **06**
(b) Write on carbapenems and monobactams. **05**
(c) Name antimicrobial agents used for **05**
(i) Rickettsial and chlamydial infection
(ii) Leprosy
(iii) UTI
(iv) Pneumococcal infection
(v) Prophylactic for Malaria
- Q. 6** (a) Discuss pharmacotherapeutics of 5-HT receptor antagonists. **06**
(b) Write a note on tamsulosin. **05**
(c) Discuss pharmacology of neuromuscular blockers. **05**
- Q.7** (a) Write a note on oral cephalosporins. **06**
(b) Write a note on zanamivir. **05**
(c) Name antimicrobial agents producing side effects **05**
(i) Ototoxicity (ii) Cinchonism (iii) Crystalluria (iv) Fanconi like syndrome
(v) Orange – red coloration in urine
