

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm-Semester-VII May-2012 Examination

Subject code: 270006

Subject Name: Pharmacology III

Time: 02:30pm to 5:30pm

Date: 30-05-2012

Instructions:

Total Marks: 80

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

- Q.1** (a) Classify antiulcer agents? Discuss management of stress induced Ulcers. **06**
(b) What is resistance? Discuss the mechanisms of resistance to chemotherapeutic agents. **05**
(c) Write a brief note on pharmacology of Nitric Oxide. **05**
- Q.2** (a) Discuss the physiological role of Thyroxine. Explain the mechanism and adverse effects of Methimazole. **06**
(b) Discuss the pharmacology of Tocolytics. **05**
(c) Enumerate antiHIV agents. Write a note on antiherpes virus agents. **05**
- Q.3** (a) Classify drugs used in asthma? Explain the role of SABA in therapy of asthma. **06**
(b) Explain the mechanism of action of 1. Kanamycin 2. Omalizumab. **05**
(c) Classify different Immunosuppressants. Write a brief note on TNF- α inhibitors. **05**
- Q.4** (a) What is DOTS? Discuss the management of Tuberculosis with special emphasis on Isoniazid. **06**
(b) Enumerate antifungal agents. Write in detail about systemic antifungal agents. **05**
(c) Write a brief note on Macrolides. **05**
- Q.5** (a) Classify anticancer agents based on mechanism of action. Write in brief about Cyclophosphamide. **06**
(b) Explain the mechanism, adverse effects and uses of Cephalosporins. **05**
(c) Describe the therapeutic uses and adverse effects of Glucocorticoids. **05**
- Q. 6** (a) Describe in brief the pharmacology of FluoroQuinolones. Highlight the advantages of gatifloxacin over norfloxacin. **06**
(b) Enumerate the pituitary hormones. Discuss in brief ADH. **05**
(c) Enumerate oral antidiabetic agents. Discuss DPP4 inhibitors in brief. **05**
- Q.7** (a) Comment on following (any four) **06**
1. Streptomycin is contraindicated in patients of Renal failure.
2. Metformin overdose leads to metabolic acidosis.
3. Use of nandrolone is banned in athletes.
4. Ketoconazole maybe used for the treatment of patients with Cushing's Syndrome.
5. Dextromethorphan is preferred over Codeine as antitussive agent.
(b) Explain the mechanism of action of 1. Amphotericin 2. Montelukast **05**
(c) Classify laxatives. Write in brief about Osmotic and Bulk laxatives. **05**
