

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. – SEMESTER – VII • EXAMINATION – WINTER • 2016**

**Subject Code: 270006**

**Date: 29-11-2016**

**Subject Name: Pharmacology-III**

**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 antibiotics according to its mechanism of action. Discuss the mechanism of bacterial resistance against antibiotics. **06**
- (b) Explain the mechanism, adverse effects and uses of Cephalosporins. **05**
- (c) Classify antiulcer agents? Discuss management of H. pylori-induced Ulcers. **05**
- Q.2** (a) Classify antithyroid drugs and explain mechanism of each class. Describe the rationale for the use of Radioactive Iodine in thyrotoxicosis **06**
- (b) Describe the postulated role of corticosteroids in the therapy of asthma. **05**
- (c) Classify antimalarial drugs based on affected plasmodial state and clinical use. **05**
- Q.3** (a) Classify immunosuppressive agents. Describe the mechanism of action, therapeutic use and adverse effect of cyclosporine. **06**
- (b) Write mechanism of action, adverse effects and therapeutic uses of ornidazole **05**
- (c) What is post antibiotic effect? Explain its importance in treatment with antibiotics. **05**
- Q.4** (a) Describe the physiological actions of nitric oxide (NO) **06**
- (b) Write a short note on oral contraceptives **05**
- (c) Explain WHO categorization of T.B. patients and recommended dose regimen. **05**
- Q.5** (a) Classify anticancer drugs on the basis of action on cell cycle sites and give pharmacological profile of Busulfan. **06**
- (b) Classify anthelmintics. Explain drugs used in mixed infestation due to round worm and hook worm (one drug in detail) **05**
- (c) Describe why the efficacy of H<sub>2</sub> antagonists is less than that of proton-pump inhibitors. **05**
- Q. 6** (a) Classify oral hypoglycemic agents and differentiate between Sulphonylurea, DPP4 inhibitors and Biguanides **06**
- (b) Discuss the mechanisms of resistance to chemotherapeutic agents. **05**
- (c) Describe mechanism of action, spectrum and side effects of amphotericin B **05**
- Q.7** (a) Discuss the therapeutic uses and adverse effects of Glucocorticoids **06**
- (b) Discuss "calcium rebound" with respect to antacids. **05**
- (c) Discuss reverse transcriptase inhibitors. **05**

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