

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 ₂ 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 |
