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 06 the mechanism of bacterial resistance against antibiotics. Explain the mechanism, adverse effects and uses of Cephalosporins. 05 (b) Classify antiulcer agents? Discuss management of H. pylori-05 (c) induced Ulcers. Q.2 Classify antithyroid drugs and explain mechanism of each class. 06 (a) Describe the rational for the use of Radioactive Iodine in thyrotoxicosis Describe the postulated role of corticosteroids in the therapy of 05 (b) asthma. Classify antimalarial drugs based on affected plasmodial state and 05 (c) clinical use. Q.3 Classify immunosuppressive agents. Describe the mechanism of **06** (a) action, therapeutic use and adverse effect of cyclosporine. Write mechanism of action, adverse effects and therapeutic uses of (b) 05 ornidazole What is post antibiotic effect? Explain its importance in treatment (c) 05 with antibiotics. 0.4 Describe the physiological actions of nitric oxide (NO) 06 (a) Write a short note on oral contraceptives 05 (b) Explain WHO categorization of T.B. patients and recommended 05 (c) dose regimen. Q.5 (a) Classify anticancer drugs on the basis of action on cell cycle sites **06** and give pharmacological profile of Busulfan. Classify anthelmintics. Explain drugs used in mixed infestation due (b) 05 to round worm and hook worm (one drug in detail) (c) Describe why the efficacy of H₂ antagonists is less than that of 05 proton-pump inhibitors. **Q.** 6 Classify oral hypoglycemic agents and differentiate between **06** (a) Sulphonylurea, DPP4 inhibitors and Biguanides Discuss the mechanisms of resistance to chemotherapeutic 05 (b) agents. Describe mechanism of action, spectrum and side effects of (c) 05 amphotericin B Q.7 Discuss the therapeutic uses and adverse effects of Glucocorticoids **06** (a) Discuss "calcium rebound" with respect to antacids. 05 (b) (c) Discuss reverse transcriptase inhibitors. 05
