

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 7 EXAMINATION – WINTER -2019

Subject Code: 2270004
Date: 22-11-2019
Subject Name: Pharmacology and Pharmacotherapeutics – III
Time: 10:30AM TO 01:30PM
Total Marks: 80
Instructions:

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

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|-------------|---|-----------|
| Q.1 | (a) Write the mechanism of action and side effects of :
I. Indinavir II. Rifampin III. Amphotericin- B | 06 |
| | (b) Explain various mechanisms of drug resistance with suitable examples. | 05 |
| | (c) Discuss pathogenesis and treatment of Urinary Tract infections. | 05 |
| Q.2 | (a) Explain various forms of influenza virus infections. Write etiopathogenesis of SARS and its treatment. | 06 |
| | (b) Discuss adverse effects of Chloramphenicol and Tetracycline. | 05 |
| | (c) Write a note on Tamoxifen | 05 |
| Q.3 | (a) Describe the pharmacology of drugs for the treatment of luminal amoebiasis. | 06 |
| | (b) Discuss advantages and use of semisynthetic penicillins. | 05 |
| | (c) Discuss pathophysiology, symptoms, diagnosis and treatment of Syphilis and Gonorrhoea. | 05 |
| Q.4 | (a) Describe the spectrum of activity, adverse effects and therapeutic uses of Fluoroquinolones. | 06 |
| | (b) Justify the following:
I. Sulphonamide potency is decreased in case of co-administration with Local anesthetics
II. Amoxicillin is preferred to ampicillin
III. Patients on procarbazine should avoid wine and cheese in their diet.
IV. Allopurinol is used to decrease excessive uric acid formation during cancer therapy.
V. Penicillin is a drug of choice for syphilis treatment | 05 |
| | (c) Compare and contrast Penicillins and cephalosporins | 05 |
| Q.5 | (a) Classify aminoglycosides. Describe their spectrum, adverse effects and indications of 'Streptomycin'. | 06 |
| | (b) Explain the Role of Vinca alkaloids and taxanes in cancer. | 05 |
| | (c) Write a note on Azole antifungal agents | 05 |
| Q. 6 | (a) Classify cephalosporins. Describe the antibacterial spectrum, therapeutic uses and adverse effects of third generation cephalosporins | 06 |
| | (b) write a note on Treatment of multibacillary leprosy | 05 |
| | (c) write a note on Beta lactamase inhibitors | 05 |
| Q.7 | (a) Enumerate macrolides. Discuss the actions, uses & side effects of Erythromycin | 06 |
| | (b) Write the Mode of action and therapeutic uses of :
d – pencillamine Oseltamivir Cefaclor Imipenem Aztreonam | 05 |
| | (c) Explain signs ,symptoms, diagnosis and treatment of tuberculosis. | 05 |
