

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER-6 EXAMINATION – WINTER -2023

Subject Code: BP602TP**Date: 05/12/2023****Subject Name: Pharmacology III****Time: 02.30 p.m. to 5.30 p.m.****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 mechanism of actions of following drugs: (i) Azithromycin (ii) Ciprofloxacin (iii) Doxycycline | 06 |
| | (b) Write a note on drugs used in the management of COPD | 05 |
| | (c) Classify Antifungal agents. Describe mechanism of action and adverse effects of Amphotericin B. | 05 |
| Q.2 | (a) Describe the following terms with examples: (i) Biosimilars (ii) Monoclonal antibodies (iii) Chronopharmacology. | 06 |
| | (b) Discuss the management of UTI. | 05 |
| | (c) Define Immunomodulator. Discuss in detail about cyclosporine. | 05 |
| Q.3 | (a) Write mechanism of action and adverse effects of following drugs: (i) Oseltamivir (ii) Isoniazid (iii) Tamoxifen. | 06 |
| | (b) Classify Antimalarial drugs. Write pharmacology of Chloroquine | 05 |
| | (c) Write in detail about the drugs used in treatment of Syphilis and Gonorrhoea. | 05 |
| Q.4 | (a) Classify anti asthmatic drugs. Describe role of sympathomimetics in the treatment of asthma. | 06 |
| | (b) Discuss the role of antimetabolites in treatment of cancer. | 05 |
| | (c) What is drug resistance? Write different mechanisms of transfer of resistance genes within and among bacteria. | 05 |
| Q.5 | (a) Classify Cephalosporin. Write MOA and therapeutic actions of third generation Cephalosporin's. | 06 |
| | (b) Classify Laxatives. Explain Osmotic purgatives. | 05 |
| | (c) Define cough. Differentiate between Expectorants and Antitussive agents | 05 |
| Q.6 | (a) Describe Pharmacology of Proton Pump Inhibitor | 06 |
| | (b) Classify Antiemetics. Write pharmacology of ondansetron. | 05 |
| | (c) Discuss signs, symptoms & management of morphine and organophosphorus poisoning | 05 |
| Q.7 | (a) Define following term: (1) Teratogenicity (2) Genotoxicity (3) Sub acute toxicity (4) Biological clock (5) Anthelmintics (6) Carminatives | 06 |
| | (b) Classify sulphonamides and explain its mechanism of action and adverse effects. | 05 |
| | (c) Comment on following statement:
(i) Cotrimoxazole is preferred over sulfonamide alone.
(ii) Probenecid is administered with Penicillin. | 05 |