

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER– 6 EXAMINATION – SUMMER -2020

Subject Code:BP602TP**Date: 27-10-2020****Subject Name: PHARMACOLOGY III****Time: 10:30 AM TO 1:30 PM****Total Marks: 80****Instructions:**

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

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|-------------|-----|--|-----------|
| Q.1 | (a) | Write mechanism of action, side effects of 1) Nelfinavir 2) Isoniazid 3) Tamoxifen. | 06 |
| | (b) | What is HAART? Write a note on drugs used in treatment of HIV infection. | 05 |
| | (c) | Classify antifungal agents & write a note on azoles as antifungal agent. | 05 |
| Q.2 | (a) | Classify third generation Cephalosporin's & write its MOA and therapeutic actions. | 06 |
| | (b) | What is drug resistance? Write different mechanisms of transfer of resistance genes within and among bacteria. | 05 |
| | (c) | Explain the following terms : i) Acute toxicity ii) Superinfection iii) Jarish Herxheimer reaction iv) Cross resistance v) Kernicterus | 05 |
| Q.3 | (a) | Classify types of Leprosy. Write detail pharmacology of Dapsone. | 06 |
| | (b) | Explain in brief tissue schizontocidal agents. | 05 |
| | (c) | Explain in detail MDR-TB and write a note on DOTS. | 05 |
| Q.4 | (a) | Classify Laxatives. Explain Osmotic purgatives. | 06 |
| | (b) | Write MOA of following drugs: i) Metoclopramide ii) Mesalazine iii) Etofamide iv) Foscarnet v) Doxorubicin | 05 |
| | (c) | Write a note on anthelmintics. | 05 |
| Q.5 | (a) | Write a note immunostimulants. | 06 |
| | (b) | Discuss the role of antimetabolites in treatment of cancer. | 05 |
| | (c) | Discuss treatment and management of diarrhea with emphasis on ORT. | 05 |
| Q. 6 | (a) | Write in detail the drugs used in treatment of Syphilis and Gonorrhea. | 06 |
| | (b) | Classify the drugs used in treatment of UTI. Write a note on Quinolones. | 05 |
| | (c) | Explain in brief the mechanism of biological agents as immunosuppressants. | 05 |
| Q.7 | (a) | Explain the use of Leukotriene antagonists in treatment of asthma. | 06 |
| | (b) | Define cough. Differentiate between Expectorants and Antitussive agents | 05 |
| | (c) | Explain the role of chronology in occurrence of various diseases. | 05 |

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm.– SEMESTER–VI - EXAMINATION – SUMMER-2021

Subject Code: BP602TP**Date: 04/08/2021****Subject Name: Pharmacology-III****Time: 02:30 PM To 05:30 PM****Total Marks: 80****Instructions:**

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

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|-------------|-----|--|-----------|
| Q.1 | (a) | Explain the role of biological clocks in cancer processes and chronotherapy in detail. | 06 |
| | (b) | Define Immunomodulator. Discuss in detail about cyclosporine. | 05 |
| | (c) | Write a note on antifungals. | 05 |
| Q.2 | (a) | What is DOTS? Explain the clinical signs, symptoms and diagnostic tests of Tuberculosis. | 06 |
| | (b) | Explain in detail the pharmacology of Ciprofloxacin. | 05 |
| | (c) | Write a note on macrolides. | 05 |
| Q.3 | (a) | Describe the terms (with examples): Biosimilars, Monoclonal antibodies and Chronopharmacology. | 06 |
| | (b) | Outline the complete life cycle of Malarial parasite. Discuss the use of “Co-artemether”. | 05 |
| | (c) | Classify antiemetic drugs. Discuss mechanism of prokinetic drugs. | 05 |
| Q.4 | (a) | Write about etiology, pathophysiology and treatment of COPD. | 06 |
| | (b) | Write in detail about the drugs used in treatment of Syphilis and Gonorrhea. | 05 |
| | (c) | Write a note on anthelmintics. | 05 |
| Q.5 | (a) | Explain the clinical symptoms and management of barbiturates and morphine poisoning. | 06 |
| | (b) | What is HAART? Write a note on drugs used in treatment of HIV infection. | 05 |
| | (c) | Classify laxatives and purgatives. Add a note on irritant laxatives with example. | 05 |
| Q. 6 | (a) | Classify anticancer drugs highlighting their mechanism of action. | 06 |
| | (b) | Describe pathophysiology and treatment of bronchial asthma. | 05 |
| | (c) | Write a note on antitussive agents. | 05 |
| Q.7 | (a) | Classify types of Leprosy. Write detail pharmacology of Dapsone. | 06 |
| | (b) | Discuss the management of UTI. | 05 |
| | (c) | Write a brief note on Digestants and carminatives. | 05 |

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER-VI • EXAMINATION –SUMMER -2022

Subject Code:BP602TP**Date: 03/06/2022****Subject Name: Pharmacology-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) Define Resistance. Write note on Mechanism of Resistance. | 06 |
| | (b) Write Classification of Anticancer Drugs. | 05 |
| | (c) Write down Pharmacology of Sulphonamide | 05 |
| Q.2 | (a) Write note on bacterial Cell Wall Synthesis inhibitors. | 06 |
| | (b) Classify Anti-asthmatics Drugs | 05 |
| | (c) Write note on Drugs which is used in Urinary Tract Infections. | 05 |
| Q.3 | (a) Define Immunopharmacology. Classify Immunosuppressant Drugs. Write Mechanism of action of Cyclosporine | 06 |
| | (b) Classify Antiemetics. Describe any one in detail. | 05 |
| | (c) Write note on Non-Nucleoside Reverse Transcriptase Inhibitor. | 05 |
| Q.4 | (a) Classify Antiviral Drugs according to its Mechanism of Action. | 06 |
| | (b) Write note on General Principle of Treatment of Poisoning | 05 |
| | (c) Explain Following Term: Teratogenicity & Carcinogenicity | 05 |
| Q.5 | (a) Enlist Various Anti-Malarial Drugs. Discuss Pharmacology Primaquine | 06 |
| | (b) Describe Adverse Effect of Aminoglycoside Antibiotics | 05 |
| | (c) Comment on Following Statement:
a) Probenecid is given with Penicillin
b) All Chemotherapeutic Agents are Antibiotics. | 05 |
| Q.6 | (a) Explain Following Term:
a) Fanconi Like Syndrome
b) Gray Baby Syndrome
c) Kernicterus | 06 |
| | (b) Classify Cephalosporins. | 05 |
| | (c) Enlist First line Drugs used in Tuberculosis | 05 |
| Q.7 | (a) Write Mechanism of Action of Following Drugs
a) Clavulanic Acid
b) Acyclovir
c) Metronidazole | 06 |
| | (b) Write Pharmacology of Azithromycin | 05 |
| | (c) Discuss the Pharmacology of Antiulcer Agents. | 05 |

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

Subject Code: BP602TP**Date: 20/06/2023****Subject Name: Pharmacology III****Time:10.30 a.m. to 1.30 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.

- Q.1** (a) Write down Mechanism of Action of Following drugs. **06**
A) Clavunic Acid
B) Ziduvudine
C) Methotrexate
(b) Classify Anti-asthmatics Drugs **05**
(c) Write down Pharmacology of Metronidazole. **05**
- Q.2** (a) Write note on bacterial Cell Wall Synthesis inhibitors. **06**
(b) Write note on Drugs which is used in Urinary Tract Infections. **05**
(c) Comment on Following Statement: **05**
a) Probenecid is given with Penicillin
b) Pyridoxine is given with Isoniazid
- Q.3** (a) Define Immunopharmacology. Classify Immunosuppressant Drugs. Write Mechanism of action of Cyclosporine **06**
(b) Write Classification of Anticancer Drugs. **05**
(c) Write note on Non-Nucleoside Reverse Transcriptase Inhibitor. **05**
- Q.4** (a) Classify Antiviral Drugs according its Mechanism of Action. **06**
(b) Write down Mechanism of Action & therapeutic uses of Chloramphenicol. **05**
(c) Write down Mechanism of action & Therapeutic Use of Co-trimoxazole **05**
- Q.5** (a) Enlist Various Anti-Malarial Drugs. Discuss Pharmacology Primaquine **06**
(b) Describe Adverse Effect of Aminoglycoside Antibiotics **05**
(c) Classify Antiemetics. Describe any one in Detail. **05**
- Q. 6** (a) Explain Following Term: **06**
a) Fanconi Like Syndrome
b) Gray Baby Syndrome
c) Ototoxicity
(b) Discuss the Pharmacology of Antiulcer Agents. **05**
(c) Enlist First line Drugs used in Tuberculosis **05**
- Q.7** (a) Write Mechanism of Action of Following Drugs **06**
a) Clarithromycin
b) Acyclovir
c) Metronidazole
(b) Write Pharmacology of Azithromycin **05**
(c) Write note on General Principle of Treatment of Poisoning **05**

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 6 EXAMINATION – SUMMER-2024

Subject Code:BP602TP**Date: 02/05/2024****Subject Name: Pharmacology III****Time: 10.30 a.m. to 1.30 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) Classify antifungal agents. Write a note on azole group of antifungals. | 06 |
| | (b) Write in detail about pharmacology of Aminoglycosides. | 05 |
| | (c) Describe Expectorants in detail. | 05 |
| Q.2 | (a) Classify antiemetics. Explain mechanisms of Prokinetic drugs. | 06 |
| | (b) Describe clinical symptoms and management of Organophosphorus poisoning. | 05 |
| | (c) Classify Purgatives. Write a note on Bulk purgatives. | 05 |
| Q.3 | (a) Classify Anti-asthmatics and discuss about bronchodilators. | 06 |
| | (b) Write a note on Proton Pump Inhibitors. | 05 |
| | (c) Describe Immunosuppressants. | 05 |
| Q.4 | (a) Explain mechanism of action of (i) Penicillin (ii) Fluoroquinolones | 06 |
| | (b) Explain various Biochemical mechanisms of resistance to antibiotics. | 05 |
| | (c) Classify antituberculosis agents and write a note on DOTS therapy. | 05 |
| Q.5 | (a) Explain life cycle of HIV virus and write a note on Zidovudine. | 06 |
| | (b) Describe role of biological clock in chronotherapy. | 05 |
| | (c) Explain adverse effects of (i) Chloramphenicol (ii) Sulfonamides | 05 |
| Q.6 | (a) Write down pathophysiology & management of COPD. | 06 |
| | (b) Describe Anthelmintics. | 05 |
| | (c) Write in detail about drugs used in Syphilis & Gonorrhea. | 05 |
| Q.7 | (a) Explain the following terms | 06 |
| | (i) Carcinogenicity (ii) Teratogenicity (iii) Genotoxicity | |
| | (b) Discuss the role of antimetabolites in Cancer. | 05 |
| | (c) Explain mechanism, therapeutic uses and side effects of Tetracyclines. | 05 |

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm. - SEMESTER-VI • EXAMINATION – WINTER -2020

Subject Code: BP602TP**Date: 05/01/2021****Subject Name: PHARMACOLOGY III****Time: 02:00PM TO 04:00PM****Total Marks: 54****Instructions:**

1. Attempt any **THREE** questions from Q-1 to Q-6.
2. Q.7 is compulsory to attempt.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

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|-------------|-----|---|-----------|
| Q.1 | (a) | Classify anti asthmatic drugs. Describe role of sympathomimetics in the treatment of asthma. | 06 |
| | (b) | Explain drug therapy for diarrhea. | 05 |
| | (c) | Write a note on antitussives. | 05 |
| Q.2 | (a) | Classify semi synthetic penicillins. Write antibacterial spectrum and therapeutic uses of amoxycillin. | 06 |
| | (b) | Write a note on proton pump inhibitors. | 05 |
| | (c) | Write in detail about systemic antifungal agents. | 05 |
| Q.3 | (a) | Classify anticancer agents. Discuss anti metabolites in detail. | 06 |
| | (b) | Describe the characteristics and mechanism of action of aminoglycosides. | 05 |
| | (c) | Describe mechanism of action and adverse effects of chloramphenicol. | 05 |
| Q.4 | (a) | Classify immunosuppressants. Describe pharmacology of ciclosporin. | 06 |
| | (b) | Write a note on anthelmintics. | 05 |
| | (c) | Define following term: 1) Teratogenicity 2) Chronobiology 3) Sub acute toxicity 4) Antibiotics 5) Drug resistance | 05 |
| Q.5 | (a) | What is DOTS? Discuss the management of tuberculosis with special emphasis on Isoniazid. | 06 |
| | (b) | Classify anti-malarial drugs. Write adverse effects of chloroquine. | 05 |
| | (c) | Write a note on sexually transmitted diseases. | 05 |
| Q. 6 | (a) | Classify antiviral drugs. Describe pharmacology of acyclovir. | 06 |
| | (b) | Discuss signs-symptoms and complications of various urinary tract infections. | 05 |
| | (c) | Write mechanism of action and therapeutic uses of fluoroquinolones. | 05 |
| Q.7 | (a) | Classify sulphonamides and explain its mechanism of action and adverse effects. | 06 |
| | | OR | |
| | (a) | Classify antiemetic drugs. Explain prokinetic drugs. | 06 |
| | | OR | |
| | (a) | Discuss symptoms and management of organophosphorus poisoning. | 06 |

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. – SEMESTER VI • EXAMINATION – WINTER -2021

Subject Code: BP602TP**Date: 25/11/2021****Subject Name: PHARMACOLOGY III****Time: 02:30pm to 05:30pm****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) Discuss Mechanism of action, Therapeutic uses and Adverse effects of Proton Pump Inhibitors **06**
(b) Discuss the role of Oral Rehydration Therapy (ORT) in the treatment of Diarrhoea **05**
(c) What is Cotrimoxazole? Why Cotrimoxazole is preferred over Sulfonamide alone in bacterial infections? **05**
- Q.2** (a) What is Expectorant? Write a note on Expectorant **06**
(b) Discuss Common properties of Aminoglycoside antibiotic. **05**
(c) Classify Antiviral agents, Write mechanism of action and Adverse effects of Acyclovir **05**
- Q.3** (a) Classify Antiasthmatic Drugs. Discuss Pharmacology of Leukotriene Antagonists **06**
(b) Write a note on Pharmacology of Artemisinin derivatives used in the treatment of Malaria. **05**
(c) Discuss general principles of Chemotherapy of Cancer **05**
- Q.4** (a) Classify Antifungal agents. Describe mechanism of action and adverse effects of Ketoconazole **06**
(b) Write mechanism of action and Therapeutic Uses of following Drugs **05**
(i) Sodium Cromoglycate (ii) Theophylline
(c) Classify the drugs used in the treatment of UTI and Discuss adverse effects of Ciprofloxacin **05**
- Q.5** (a) Write mechanism of actions of following drugs **06**
(i) Ofloxacin (ii) Azithromycin (iii) Doxycycline
(b) What is Drug Resistance? Suggest measures for prevention of Drug Resistance **05**
(c) Write a note on Immunosuppressant **05**
- Q.6** (a) Explain following terms **06**
(i) Teratogenicity (ii) Carcinogenicity (iii) Gray baby Syndrome
(b) Describe Clinical symptoms and management of Organophosphorus poisoning **05**
(c) Write mechanism of action, therapeutic uses and adverse effects of Metronidazole **05**
- Q.7** (a) Explain role of biological clock in chronotherapy **06**
(b) How barbiturate poisoning can be managed? **05**
(c) Write a note on Antiemetic agents. **05**

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 Gonorrhea. | 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 |

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 6 EXAMINATION – WINTER -2024

Subject Code:BP602TP**Date: 21-11-2024****Subject Name: Pharmacology III****Time:02.30 PM TO 05.30 PM****Total Marks: 80****Instructions:**

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

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|-------------|-----|--|-----------|
| Q.1 | (a) | Classify Anti-asthmatics drugs. Discuss the mechanism of action, adverse effects and uses of methyl xanthines. | 06 |
| | (b) | Write a short note on antitussives. | 05 |
| | (c) | Write mechanism of action and therapeutic uses of fluoroquinolones. | 05 |
| Q.2 | (a) | Discuss the mechanism of action, adverse effects and uses of aminoglycosides. | 06 |
| | (b) | Write a short note on DOTS. | 05 |
| | (c) | Write a short note on immunosuppressants. | 05 |
| Q.3 | (a) | Enlist Various anti-malarial drugs. Discuss pharmacology of Primaquine. | 06 |
| | (b) | Differentiate the terms: Acute, Subacute and Chronic toxicity. | 05 |
| | (c) | Write a short note on anthelmintics. | 05 |
| Q.4 | (a) | Discuss the pharmacology of Proton Pump Inhibitors. | 06 |
| | (b) | Define Expectorants? Write a short note on Expectorants. | 05 |
| | (c) | Write note on general principles of chemotherapy. | 05 |
| Q.5 | (a) | Discuss the symptoms and management of barbiturates and morphine poisoning. | 06 |
| | (b) | Write classification of anticancer drugs. | 05 |
| | (c) | Explain the terms: Teratogenicity & Carcinogenicity | 05 |
| Q. 6 | (a) | Classify sulphonamides and explain its mechanism of action and adverse effects. | 06 |
| | (b) | Write a short note on antifungal agents. | 05 |
| | (c) | Write note on general principles of treatment of poisoning. | 05 |
| Q.7 | (a) | Write a note on drugs used in Urinary Tract Infections. | 06 |
| | (b) | Explain the role of chronology in occurrence of various diseases. | 05 |
| | (c) | Write a note on Nucleoside Reverse Transcriptase inhibitor (NRTI). | 05 |
