

B.Pharm IV Year I Semester (R15) Supplementary Examinations January 2023
PHARMACOLOGY - III

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Enlist the anti-*H. pylori* drugs used in the treatment of Peptic Ulcer.
 - What is the mechanism of action and uses of Ondansetron
 - What is the reason of using sulfamethoxazole in combination with Trimethoprim
 - Enlist β -lactamase inhibitors.
 - What are the uses and side effects of Clofazimine?
 - Write down the mechanism of action and uses of Tacrolimus.
 - Write down the uses of Terbinafine and Amantadine.
 - Define antiamoebic drugs. Write down the uses of Albendazole.
 - Define poison and poisoning with example.
 - Define LD₅₀ and ED₅₀.

PART – B
(Answer all the questions: 05 X 10 = 50 Marks)

- 2 (a) Explain the mechanism of action, uses and adverse effects of metoclopramide.
(b) Define Peptic Ulcer. Classify the drugs used for the treatment of Peptic Ulcer.
- OR**
- 3 (a) What is the difference between laxatives and purgatives? Explain the mechanism of action of laxatives and purgatives.
(b) Explain the role of probiotics in the treatment of diarrhoea.
- 4 (a) Explain the mechanism of action and mechanism of resistance of aminoglycosides.
(b) Explain the mechanism of resistance and uses of Tetracyclines.
- OR**
- 5 (a) Write down the uses and adverse effects of Chloramphenicol.
(b) Explain the mechanism of action and uses of fluoroquinolones.
- 6 (a) Describe the mechanism of action, mechanism of resistance, uses and adverse effects of Isoniazid.
(b) Write down the mechanism of action, mechanism of resistance, uses and adverse effects of Dapsone.
- OR**
- 7 (a) Explain the role of immunosuppressant agents in organ transplantation.
(b) Write down the mechanism of action, uses and adverse effects of methotrexate.
- 8 (a) Define and classify antiviral drugs with examples.
(b) Write short notes on drugs for leishmaniasis.
- OR**
- 9 (a) Classify the antimalarial drugs with examples.
(b) Explain about highly active antiretroviral therapy (HAART) in detail.
- 10 (a) Explain the principles of bioassays in detail.
(b) Describe about the treatment of heavy metal poisoning.
- OR**
- 11 (a) Explain the role of therapeutic index in drug toxicity.
(b) Describe about the treatment of barbiturate poisoning.

B.Pharm IV Year I Semester (R15) Supplementary Examinations September 2022
PHARMACOLOGY – III

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Define laxatives and give two examples.
 - (b) Define emetics and give the examples.
 - (c) Write the difference between broad spectrum antibiotics and narrow spectrum antibiotics.
 - (d) Write the mechanism of trimethoprim.
 - (e) Define immunosuppressant and their uses.
 - (f) Write the mechanism of dapsone.
 - (g) What are different types of protozoal disease?
 - (h) Write the mechanism of amphotericin B.
 - (i) Define poison.
 - (j) What are different types of organophosphorus poisoning?

PART – B
(Answer all the questions: 05 X 10 = 50 Marks)

- 2 Define anti ulcer drugs and write the pharmacology of proton pump inhibitors.
- OR**
- 3 Classify anti emetic drug and the write the pharmacology of anti emetic.
- 4 What are β -lactam antibiotics and write the classification, mechanism of action of penicillin's.
- OR**
- 5 What are fluoroquinolones and write the classification, mechanism of action and adverse reaction of fluoroquinolones.
- 6 What are the symptoms of tuberculosis and write the treatment for tuberculosis.
- OR**
- 7 Write the difference between benign tumors and malignant tumors and write the pharmacology of alkalyting anticancer drug.
- 8 Classify antiviral drug and write the pharmacology of reverse transcriptase inhibitor.
- OR**
- 9 Write the classification of antifungal drugs and write the mechanism and adverse reaction of antifungal drugs.
- 10 Write the general principle for the treatment of different poisons.
- OR**
- 11 Write the treatment for barbiturates poisoning.

B.Pharm IV Year I Semester (R15) Supplementary Examinations September 2022
PHARMACOLOGY – III

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

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PART – B
(Answer all the questions: 05 X 10 = 50 Marks)

- 2 Define anti ulcer drugs and write the pharmacology of proton pump inhibitors.
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- 3 Classify anti emetic drug and the write the pharmacology of anti emetic.
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- 5 What are fluoroquinolones and write the classification, mechanism of action and adverse reaction of fluoroquinolones.
- 6 What are the symptoms of tuberculosis and write the treatment for tuberculosis.
- OR**
- 7 Write the difference between benign tumors and malignant tumors and write the pharmacology of alkalyting anticancer drug.
- 8 Classify antiviral drug and write the pharmacology of reverse transcriptase inhibitor.
- OR**
- 9 Write the classification of antifungal drugs and write the mechanism and adverse reaction of antifungal drugs.
- 10 Write the general principle for the treatment of different poisons.
- OR**
- 11 Write the treatment for barbiturates poisoning.

B.Pharm IV Year I Semester (R15) Regular & Supplementary Examinations February 2022
PHARMACOLOGY – III

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Give limitation of aluminium hydroxide as antacid.
 - How bitter tonics act as appetite stimulants?
 - Which component of cell is blocked by beta lactam antibiotics?
 - Despite of its broad spectrum of activity due to _____ property chloramphenicol is not used widely.
 - Why antileprosy treatment is long lasting?
 - Give two applications of immunosuppressants.
 - Why antiviral therapy is difficult?
 - Explain how albendazole work.
 - Give ingredients of universal antidote.
 - Which heavy metal poisoning give cholera like symptoms.

PART – B
(Answer all the questions: 05 X 10 = 50 Marks)

- 2 (a) Give pharmacological account of any one H₂ receptor blockers as antiulcer drug.
(b) What is the strategy for anti-diarrheal therapy?
- OR**
- 3 (a) Write clinical applications of emetics.
(b) Write therapeutic applications of appetite suppressants.
- 4 (a) What are the general guidelines to be followed during chemotherapy?
(b) Give mechanism of action and precautions to be taken during treatment by sulphonamides.
- OR**
- 5 (a) Give mechanism of action of chloramphenicol. Despite of broad spectrum of activity, why its therapeutic potential is limited.
(b) List various polypeptide antibiotics along with their clinical applications.
- 6 (a) Write detail mechanism along with limitations of mycolic acid inhibitors.
(b) Explain why chemotherapy of tuberculosis is long lasting.
- OR**
- 7 (a) Give principles on which cancer chemotherapy is based. Explain in detail alkylating agents.
(b) Write limitations of anticancer agents.
- 8 (a) Write about malarial cycle and various phases of it.
(b) Give mechanism of action, therapeutic application of miconazole.
- OR**
- 9 (a) Give pharmacological account of albendazole.
(b) Explain how antiviral agents works. Give their limitations in therapy.
- 10 (a) Write about general guidelines for treatment of unknown poisons.
(b) Write sign and symptoms and treatment for atropine poisoning.
- OR**
- 11 (a) Write bioassay principle and method for oxytocin.
(b) Explain about LD 50 and ED 50.

B.Pharm IV Year I Semester (R15) Supplementary Examinations August 2021
PHARMACOLOGY – III

Time: 3 hours

Max. Marks: 70

PART – A
 (Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- What are antacids? Give examples.
 - What is mechanism of action of cisapride?
 - What are major adverse effects of chloramphenicol?
 - How bactericidal drugs act?
 - Why it is difficult to treat leprosy?
 - What is mechanism of action of methotrexate?
 - Name any two system and topical antifungal agents.
 - Write mechanism of action of zidovudine.
 - What is therapeutic index?
 - Write any two principles of bioassay.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 (a) How appetite stimulants act? Give examples and adverse effects of each.
 (b) Classify anti ulcer drugs with one example of each class.

OR

- 3 (a) Write mechanism of actions, indications, adverse effects of apomorphine.
 (b) Classify antiemetic drugs with indication and one example of each class.

UNIT – II

- 4 (a) Give mechanism of action, spectrum of action and drugs from polypeptide class.
 (b) Classify beta lactams with one example each from different class.

OR

- 5 (a) Which are the drugs from quinolone and what are their mechanisms of action, spectrum and adverse reactions?
 (b) Name various beta lactamase inhibitors with their indications, reason for specific combinations and adverse reactions.

UNIT – III

- 6 (a) Classify various immunosuppressive agents with examples from each class.
 (b) What are mechanisms of action, indications and adverse reactions of doxorubicin?

OR

- 7 (a) What are indications and adverse reactions of vinca alkaloids?
 (b) Give pharmacokinetic features of rifampicin and how this information can be useful for various dose regimens?

UNIT – IV

- 8 (a) What are mechanisms of action, indications and adverse reactions of diiodohydroxyquinoline?
 (b) Explain life cycle of viruses with places where drugs can act as antiviral.

OR

- 9 (a) Give various mechanisms by which protozoa form resistance to drug treatment? How it can be overcome?
 (b) What are the mechanisms of action and adverse reactions of tolinaftate?

UNIT – V

- 10 (a) Explain sources of errors in performing bioassays.
 (b) What are the causes, symptoms and treatment for mercury poisoning?

OR

- 11 (a) Describe principle and procedure for bioassay of digitalis.
 (b) Write a note on opoid poisoning causes, symptoms and treatment.

B.Pharm IV Year I Semester (R15) Regular & Supplementary Examinations February/March 2021
PHARMACOLOGY – III

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Define prokinetic agents and give one example.
 - What is mechanism of action of loperamide?
 - How bacteriostatic drugs act?
 - What are mechanisms of resistance for streptomycin?
 - What are typical characteristics TB bacilli are having?
 - What is mechanism of action of sirolimus?
 - How the bioavailability of griseofulvin can be improved?
 - Write mechanism of action of pyrimethamine.
 - Write any two sources of errors in bioassay.
 - In which conditions gastric lavage should NOT be done?

PART – B
(Answer all five units, 5 X 10 = 50 Marks)**UNIT – I**

- 2 (a) Write mechanism of actions, indications, adverse effects of omeprazole.
(b) Classify laxatives with one example of each class.
- OR**
- 3 (a) How appetite suppressants act? Give examples and adverse effects of each.
(b) Which are various mechanisms to cause emesis, give examples of drugs causing emesis through the mechanism?

UNIT – II

- 4 (a) Give the rationale for combination of co-trimoxazole with its indications and adverse reactions.
(b) Classify fluoroquinolones with one example each.
- OR**
- 5 (a) Which are drugs from aminoglycosides class and what are their major indications and adverse reactions?
(b) Give mechanism of action, spectrum of action and drugs from macrolide class.

UNIT – III

- 6 (a) What are the mechanisms of action of alkylating agents? Classify various alkylating agents.
(b) Give pharmacokinetic features of isoniazide and how this information can be useful for various dose regimens?
- OR**
- 7 (a) What are indications and adverse reactions of immunosuppressive agents?
(b) What is atypical mycobacterial infection? What are drugs used to treat it?

UNIT – IV

- 8 (a) What are the mechanisms of action and adverse reactions of terbinafin?
(b) Give various mechanisms by which viruses form resistance to drug treatment? How it can be overcome?
- OR**
- 9 (a) Explain life cycle of malaria parasite.
(b) What are mechanisms of action, indications and adverse reactions of diethyl carbamazepine?

UNIT – V

- 10 (a) Write a note on barbiturate poisoning causes, symptoms and treatment.
(b) Explain general principles of bioassay.
- OR**
- 11 (a) What are the causes, symptoms and treatment for lead poisoning?
(b) Describe principle and procedure for bioassay of insulin.

B.Pharm IV Year I Semester (R13) Supplementary Examinations October 2020
PHARMACOLOGY – III

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Explain about bulk forming agents.
 - Write a note on Loperamide.
 - Explain about Co-trimoxazole.
 - Write about mechanism of action of Ciprofloxacin.
 - Classify Anti-Protozoal agents.
 - Explain about second line anti tubercular agents.
 - Write a note on Ketoconazole.
 - Classify Non nucleoside reverse transcriptase inhibitors.
 - Define ED50.
 - Write a note on basic principles of Bioassay.

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 (a) Explain about pharmacology of H₂ receptor antagonist of Antiulcer agents.
(b) Write a note on pharmacology of Emetics.

OR

- 3 (a) Describe the mechanism of action and side effects of laxatives.
(b) Write about pharmacology of Appetite Suppressants.

UNIT – II

- 4 (a) Write a note on mechanism of action, spectrum of action and drug interactions of tetracycline.
(b) Explain a brief note on mechanism of action, spectrum of activity & drug interactions of Macrolides.

OR

- 5 (a) Classify sulphonamides. Write a detailed note on pharmacology of sulphonamides.
(b) Describe the pharmacology of Erythromycin.

UNIT – III

- 6 (a) Write a detailed note on mechanism of action and pharmacology of INH.
(b) Classify anti-leprosy agents? Explain about pharmacology of Dapsone.

OR

- 7 (a) Explain about mechanism of action, adverse effects and uses of Methotrexate.
(b) Write a brief note on pharmacology of Immunosuppressants.

UNIT – IV

- 8 (a) Classify anti viral agents? Write a note on pharmacology of Protease inhibitors?
(b) Explain about mechanism of action, adverse effects and uses of Amphotericin B.

OR

- 9 (a) Write a note on chemotherapy of Helminthiasis.
(b) Explain about mechanism of action and drug interactions of Acyclovir.

UNIT – V

- 10 (a) Write a note on Organophosphorus poisoning.
(b) Explain about bioassay of Oxytocin.

OR

- 11 (a) Write a note on Bioassay of Insulin.
(b) Explain brief note on heavy metal antagonists.

Code: 15R00702

R15

B.Pharm IV Year I Semester (R15) Regular & Supplementary Examinations November/December 2019
PHARMACOLOGY – III

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Write the classification of anti-ulcer drugs.
 - (b) Define emesis. Write about 5 H_2 antagonists.
 - (c) Write a note on co-trimoxazole.
 - (d) Explain the M.o.A of beta lactam antibiotics.
 - (e) Classify Anti-leprotic drugs.
 - (f) Write a note on cyclosporine.
 - (g) What ivermectin? Write its M.o.A, clinical uses.
 - (h) Write the M.o.A, Adverse effects, clinical uses of Metronidazole.
 - (i) Write the treatment for Atropine poisoning.
 - (j) Define Bioassay. Write the merits and demerits of bioassay.

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 Write the classification and pharmacology of Anti-Diarrheal drugs.

OR

- 3 Explain about the Appetite stimulants.

UNIT – II

- 4 Write in detail about targets for chemotherapy and mechanism of resistance to antibiotics.

OR

- 5 Write the pharmacology of sulfonamides, gentamycin, chloramphenicol and cephalosporins.

UNIT – III

- 6 Classify and write the pharmacology of Anticancer drugs.

OR

- 7 Write about antitubercular drugs and treatment regimen in tuberculosis.

UNIT – IV

- 8 Write the classification and pharmacology of Antiviral drugs.

OR

- 9 Write the pharmacology of 8-amino quinolines and benzimidazoles.

UNIT – V

- 10 Write the signs, symptoms, treatment of Heavy metals.

OR

- 11 Write the principles of bioassay and write the bioassay of oxytocin.

Code: 15R00702

R15

B.Pharm IV Year I Semester (R15) Supplementary Examinations June 2019
PHARMACOLOGY – III

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- What are antacids? Give examples.
 - Name two appetite stimulants.
 - Write the adverse effects of fluoroquinolones.
 - Brief about Gray baby syndrome.
 - Describe the mechanism of action of Sirolimus.
 - What is the main aim of drugs in malignant diseases?
 - Write a short note on Pyrantel pamoate.
 - What is the treatment given for acute amoebic dysentery?
 - What is bioassay?
 - What is the antidote for lead poisoning?

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 Classify and write about the Anti-Diarrheal agents.
- OR**
- 3 Describe in detail about appetite stimulants and suppressants.

UNIT – II

- 4 Classify Beta-Lactam antibiotics and describe mechanism of action, therapeutic uses and adverse effect of any two beta-lactam antibiotics.
- OR**
- 5 Write the classification, mechanism of action, therapeutics uses and side effects of Sulphonamides.

UNIT – III

- 6 Classify immunosuppressive agents. Explain the pharmacology of any two agents.
- OR**
- 7 What are Hansen's diseases? Write the pharmacology of drugs used in it.

UNIT – IV

- 8 Classify anti-fungal agents. Explain the pharmacology of any two agents.
- OR**
- 9 Write in detail about Helminthic infections.

UNIT – V

- 10 (a) Describe the general principles of treatment of poisoning.
(b) Write a note on Organophosphorus toxicity.
- OR**
- 11 (a) Write about the principles of Bioassays.
(b) Write about the bioassay of oxytocin.

Code: 15R00702

R15

B.Pharm IV Year I Semester (R15) Regular Examinations November/December 2018
PHARMACOLOGY – III

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Write about the adverse effect of cimitidine.
 - What are laxatives and give examples.
 - Write the adverse effects of aminoglycoside antibiotics.
 - What is the ratio combination of co-trimoxazole?
 - What is the category wise treatment regimen of TB for new patient?
 - Give a short note on MDT.
 - Describe HAART.
 - Write the mechanism of action of ketoconazole.
 - Explain about LD50.
 - Define acute and subacute toxicity studies.

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 Write about the pharmacology of anti-emetic agents.

OR

- 3 Classify anti-ulcer agents. Describe the pharmacology of proton pump inhibitors and H2 blockers.

UNIT – II

- 4 Describe the mechanism of action, anti-bacterial spectrum, therapeutic uses and adverse effects of third generation cephalosporins.

OR

- 5 (a) Describe the basic principles of chemotherapy.
(b) Give uses and adverse effects of macrolides.

UNIT – III

- 6 Classify anti-cancer agents. Write a note on methotrexate and vincristine.

OR

- 7 Classify anti-tubercular drugs. Explain the mechanism of action, therapeutic uses, drugs interaction and adverse effect of INH and rifampicin.

UNIT – IV

- 8 Classify anti-viral agents. Explain the pharmacology of any two agents.

OR

- 9 Classify anti-malarial drugs. Discuss their role in the treatment of malaria along with their adverse effects.

UNIT – V

- 10 Write a note on bioassay of insulin and digitalis.

OR

- 11 (a) Write the symptoms and treatment for barbiturate poisoning.
(b) Write a note on heavy metal poisoning.
