[LB 4269] **AUGUST 2012** **Sub. Code: 4269**

FOURTH YEAR B.PHARM. EXAM

PAPER III – PHARMACOLOGY - II

Q.P. Code : 564269

Time: Three Hours **Maximum: 100 marks**

(180 Min) **Answer ALL questions in the same order.**

I. Elaborate on:	**Pages (Max.)**	**Time (Max.)**	**Marks (Max.)**
1. Classify beta-lactam antibiotics and describe mechanism of action, therapeutic uses and adverse effect of any two beta-lactam antibiotics.	19	33	20
2. Classify oral hypoglycemic agent and explain pharmacology, therapeutic uses of sulfonyl urea drugs.	19	33	20
II. Write notes on:			
1. Cotrimoxazole.	3	8	5
2. Fluoroquinolones.	3	8	5
3. Antidiarrhoeal drugs.	3	8	5
4. Clinical use of oestrogen.	3	8	5
5. Aminoglycoside.	3	8	5
6. Compare oral and parentral anticoagulant.	3	8	5
7. Insulin and its preparation.	3	8	5
8. Serotonin antagonist.	3	8	5
III. Short Answers:			
1. Cross resistance.	1	5	2
2. Dimercaprol.	1	5	2
3. Bradykinin.	1	5	2
4. Acyclovir.	1	5	2
5. Chloroquine.	1	5	2
6. Loperamide.	1	5	2
7. Define haematinics.	1	5	2
8. Diagnostic use of histamine.	1	5	2
9. Cyclosporine.	1	5	2
10. Adverse effect of cimetidine.	1	5	2

****

(LC 4269) **FEBRUARY 2013** **Sub. Code: 4269**

FOURTH YEAR B.PHARM. EXAM

PAPER III – PHARMACOLOGY - II

Q.P. Code : 564269

Time: Three Hours **Maximum: 100 marks**

(180 Min)

I. Elaborate on: **(2X20=40)**

1. Classification, mechanism of action, therapeutic uses and side effects of Sulphonamides.

2. a) Define and classify fibrinolytics. Write the significance of newer heparin derivatives.
   b) Describe the phases involved in Clinical trials.

II. Write notes on: **(8X5=40)**

1. Antacids.
2. Anti-thyroid drugs.
3. Drugs acting on uterus.
4. Quinolones.
5. Blood plasma volume expanders.
6. Bradykinins.
7. G-Protein coupled receptors.
8. Heavy metal poisoning and their treatment.

III. Short Answers **(10X2=20)**

1. Antidiarrohoeal drugs.
2. Insulin.
3. Anabolic steroids.
4. Vitamin K.
5. Chronopharmacology.
6. Genotoxicity.
7. H_2 receptor antagonist.
8. Glucocorticoids.
9. Antifungal antibiotics.
10. Immunopharmacology.

****

(LD 4269) **AUGUST 2013** **Sub. Code: 4269**

FOURTH YEAR B.PHARM. EXAM

PAPER III – PHARMACOLOGY - II

Q.P. Code: 564269

Time: Three Hours **Maximum: 100 marks**

I. Elaborate on: (2X20=40)

1. Classify Anti-neoplastic agents. Discuss the Mechanism of action, adverse drug reaction, therapeutics uses of alkylating agents and Anti-Metaboloties.
2. Classify Anti-ulcer agents. Describe the pharmacology of proton pump inhibitors and H2 blockers.

II. Write notes on: (8X5=40)

1. Co- trimoxazole
2. Mechanism of action of fluoroquinolones.
3. Classify Anti-diarhoeal drugs.
4. Low molecular weight heparin
5. Bacterial resistance.
6. Classify drugs used in leprosy
7. Write briefly about prostaglandins.
8. 5HT3 antagonist.

III. Short Answers on: (10X2=20)

1. Uses of corticosteroids
2. Biological clock
3. Adverse effect of cimitidine
4. Define prokinetics with example
5. Gray baby syndrome
6. Beta-lactamase inhibitors
7. 2^{nd} generation of antihistamines
8. Two examples of insulin analogues
9. Drugs used to treat Myxoedema coma
10. Define Haematinics with example.

****

(LE 4269) **FEBRUARY 2014** **Sub. Code: 4269**

FOURTH YEAR B.PHARM. EXAM
PAPER III – PHARMACOLOGY - II
Q.P. Code: 564269

Time: Three Hours **Maximum: 100 marks**

I. Elaborate on: **(2X20=40)**

1. Explain the synthesis, storage and release of thyroid hormone, write the mechanism and the pharmacological action of thyroid hormone.

2. a. Classify antihistamines and add note on histamine receptors.
   b. Write the pharmacological action and the therapeutic uses of second generation antihistamines

II. Write notes on: **(8X5=40)**

1. Estrogens
2. Amphotericin B
3. Cholecystokinin
4. Laxatives
5. Biological clock
6. ANOVA
7. Antimetabolites
8. General principles in treatment of poisoning

III. Short Answers on: **(10X2=20)**

1. Pre-clinical trials
2. Immunosuppressants
3. Jet-lag
4. Conjunctivitis
5. Carcinogenicity
6. Dapsone
7. Tocolytics
8. Emetics
9. Hormones regulating calcium level
10. Haematinics

****

(LF 4269) **AUGUST 2014** **Sub. Code: 4269**

FOURTH YEAR B.PHARM. EXAM
PAPER III – PHARMACOLOGY - II

Q.P. Code: 564269

Time: Three Hours **Maximum: 100 marks**

I. Essay: **(2X20=40)**

1. Classify oral hypoglycopnic drugs. Write the MOA and side effects of Biguanides.

2. Classify anticancer drugs and explain briefly the mechanism of action and the adverse effects of Anti metabolites.

II. Short notes: **(8X5=40)**

1. Cyclosporine
2. Oral contraceptives
3. Zidovudine
4. Antiplatelet drugs
5. Treatment of glaucoma
6. Antithyroid drugs
7. Student ‘ t’ test
8. Substance-P

III. Short Answers: **(10X2=20)**

1. ORS
2. Biological clock
3. Gray baby syndrome
4. Apoptosis
5. Triple response
6. Leukotriene Antagonists
7. Arithmetic mean and median
8. Dimercaprol
9. Circadian cycle
10. Teratogenicity

****

(LG 4269) **FEBRUARY 2015** **Sub. Code: 4269**

FOURTH YEAR B.PHARM. EXAMINATION
PAPER III – PHARMACOLOGY - II

Q.P. Code: 564269

Time: Three hours **Maximum: 100 marks**

I. Essay: **(2 x 20 = 40)**

1. Explain the various phases of clinical trials.
2. Classify drugs used for treating tuberculosis, explain the treatment regime. Mention the side effects of Dapsone.

II. Short notes: **(8 x 5 = 40)**

1. What are antacids? classify and give the therapeutic use and side effects.
2. Write note on antiemetics.
3. What is cotrimoxazole? Give its therapeutic uses and mechanism of action.
4. Write short notes on protease inhibitors.
5. Classify 5HT antagonist. Give the therapeutics use of 5HT3 antagonist.
6. Explain the general methods of poison treatment.
7. Write note on immunomodulators.
8. What are fibrinolytic agents, classify them. Write the MOA and therapeutic uses.

III. Short answers: **(10 x 2 = 20)**

1. Write the functions of bradykinin
2. Give examples for saline purgative
3. Write two uses of prostaglandin agonist
4. Name the posterior pituitary hormones
5. Define acute and subacute toxicity studies
6. What is triple response?
7. What is the antidote for lead poisoning?
8. Define mean and mode
9. What is regression analysis?
10. Name two antifungal antibiotics

****

[LH 4269] **AUGUST 2015** **Sub. Code: 4269**

B.PHARM. DEGREE EXAMINATION

FOURTH YEAR

PAPER III – PHARMACOLOGY - II

Q.P. Code: 564269

Time : Three Hours **Maximum : 100 marks**

Answer ALL questions

I. Essay: **(2 x 20 = 40)**

1. a) Classify Anti-Emetics.
   b) Discuss the mechanism of action, side effects and uses of each class of anti emetics.
2. a) Classify Anti-malarial.
   b) Describe the mechanism of action, therapeutic uses and adverse effects of chloroquine.
   c) Write a note on drugs used in prophylaxis of malaria.

II. Short notes : **(8 x 5 = 40)**

1. Describe the steps involved synthesis and metabolism of bradykinin.
2. Describe the Mechanism of action, therapeutic uses and adverse effect of cyclosporine.
3. Describe the Mechanism of action therapeutic uses and adverse effect of Gentamycin.
4. Write a note on Metformin.
5. Explain the general methods for treatment of poisoning.
6. Write briefly on oral contraceptives.
7. What are fibrinolytics? Classify them and give their therapeutic application.
8. Write a note on drugs used in the treatment of AIDS.

III. Short answers: **(10 x 2 = 20)**

1. Name two macrolides, antibiotics.
2. What is pentagastrin?
3. What are the drugs used in the treatment of glaucoma?
4. Define sub acute toxicity.
5. Side effects of chloramphenicol.
6. Name two appetite stimulants
7. Name two Prokinetic agents.
8. Define the term mutagenicity.
9. Name two bulk purgatives.
10. Name two topical sulphonamides.

****

(LI 4269) FEBRUARY 2016 **Sub. Code: 4269**

FOURTH YEAR B.PHARM. EXAMINATION
PAPER III – PHARMACOLOGY - II

Q.P. Code: 564269

Time: Three hours **Maximum: 100 Marks**

I. Essay: **(2 x 20 = 40)**

1. Define Diabetes Mellitus. Discuss about the various drugs used in the treatment of Diabetes Mellitus.

2. a) Classify antihistaminic drugs.
   b) Describe the mechanism of action, therapeutic uses and adverse effects of first generation H_1 receptor antagonists.
   c) What are the advantages of second generation H_1 receptor antagonists?

II. Short notes: **(8 x 5 = 40)**

1. Explain the MOA and therapeutic uses of proton pump inhibitors.
2. Write the therapeutic uses and side effect of Glucocorticoids.
3. Prokinetic agents.
4. Co-trimoxazole.
5. Low molecular weight heparin.
6. Briefly describe the various commonly encountered household poisons.
7. What is the role of antimetabolites in cancer?
8. Prostoglandin analogs.

III. Short answers: **(10 x 2 = 20)**

1. Define the term carcinogenicity and mutagenicity.
2. Name two acid resistance penicillins.
3. Define the term Tocolytics and give examples.
4. Name two physical anticoagulants.
5. Name two adverse effects of aminoglycosides.
6. Name two antifungal antibiotics.
7. Define the term Lepra reaction.
8. Name two osmotic laxatives.
9. Name two appetite stimulants.
10. Name two emetics.

****

(LJ 4269) AUGUST 2016 **Sub. Code: 4269**

FOURTH YEAR B.PHARM. EXAMINATION
PAPER III – PHARMACOLOGY - II

Q.P. Code: 564269

Time: Three hours **Maximum: 100 Marks**

I. Essay: **(2 x 20 = 40)**

1. a) Classify Beta Lactam antibiotics. Describe the mechanism of action, therapeutic uses and adverse effects of Amoxycillin.
   b) What are Beta Lactamase inhibitors and what are their advantages?
2. Discuss the pharmacological actions, side effects, contraindications and uses of corticosterone.

II. Short notes: **(8 x 5 = 40)**

1. Write briefly on Antacids.
2. Ketoconazole – its mechanism and uses of action.
3. Write a note on chemotherapy of STD.
4. Write briefly on prostaglandins.
5. What are the pharmacological actions and uses of Oxytocin?
6. What is the mechanism of action and side effects of Insulin?
7. What is the mechanism of action and uses of oral anti-coagulants?
8. What is the role of Vinca alkaloids in treatment of cancer?

III. Short answers: **(10 x 2 = 20)**

1. Substance P.
2. Drugs causing hepatotoxicity.
3. Fanconi syndrome.
4. Anaphylaxis.
5. Define the term chronopharmacology.
6. Anti herpes drugs.
7. Adverse effect of chloroquine.
8. H_2 receptor antagonist.
9. Define haematinics and give two examples.
10. Fibrinolytic drugs.

****

(LK 4269) FEBRUARY 2017 **Sub. Code: 4269**

B.PHARM. EXAMINATION
FOURTH YEAR
PAPER III – PHARMACOLOGY - II

Q.P. Code: 564269

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Classify Anti Ulcer agents. Explain the pharmacology, therapeutic uses and side effects of Proton Pump inhibitors and H_2 blockers.

2. Classify Anti-tubercular drugs. Explain the mechanism of action, therapeutic uses, drugs interactions and adverse effect of INH and Rifampicin.

II. Write notes on: **(8 x 5 = 40)**

1. Calcitonin.
2. Role of plasma volume expanders.
3. Fluoroquinolones.
4. Ergot alkaloids.
5. Write briefly about Erythromycin.
6. Oral contraceptive.
7. Anti-platelet agents.
8. Drugs used to treat glaucoma and their mechanism of action.

III. Short answers on: **(10 x 2 = 20)**

1. Cross resistance.
2. Side effects of Metronidazole.
3. Define haematinics with example.
4. Low molecular weight Heparin.
5. Regression analysis.
6. Posterior pituitary hormones.
7. Immunostimulants.
8. Functions of bradykinin.
9. Name two bulk purgatives.
10. Dimercaprol.

****

(LL 4269) AUGUST 2017 **Sub. Code: 4269**

B.PHARM. DEGREE EXAMINATION
FOURTH YEAR
PAPER III – PHARMACOLOGY - II

Q.P. Code: 564269

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. a) Mechanism of action, spectrum of activity, adverse effects and uses of Fluroquinolones.
   b) What are the various mechanisms of development of resistance to Fluroquinolones?
2. a) Classify anti-emetic drugs.
   b) Discuss about the mechanism of action, adverse drug reactions and uses of these drugs.

II. Write notes on: **(8 x 5 = 40)**

1. Tetracycline.
2. Clinical trials.
3. Glibenclamide.
4. Signs and treatment of Arsenic poisoning.
5. Metronidazole.
6. Bisphosphonates.
7. Cyclosporin.
8. Sumatriptan.

III. Short answers on: **(10 x 2 = 20)**

1. Proton pump.
2. ANOVA.
3. Cross resistance.
4. Octreotide.
5. Sulfasalazines.
6. Microtubule damaging anticancer drugs.
7. Uses of anti-platelet drugs.
8. Paired and unpaired t-test.
9. Phosphodiesterase-5 inhibitors.
10. Contraindications to use of corticosteroids.

****

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

(LM 4269) FEBRUARY 2018 **Sub. Code: 4269**

B.PHARM. DEGREE EXAMINATION
FOURTH YEAR
PAPER III – PHARMACOLOGY - II

Q.P. Code: 564269

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Classify Anti-malarial Drugs. Discuss their role in the treatment of malaria along with their adverse effects.

2. How is insulin secretion regulated in the body? What are the actions, adverse effects and uses of insulin? What are the various available preparations of insulin?

II. Write notes on: **(8 x 5 = 40)**

1. Ulcer protectants.
2. Amphotericin B.
3. Mechanism of anti-biotic resistance.
4. Gentamycin.
5. Erythropoietin.
6. Zidovudine.
7. Signs and treatment of Iron poisoning.
8. Pre-clinical trials.

III. Short answers on: **(10 x 2 = 20)**

1. Super-infection.
2. “Blinding” in clinical trials.
3. Uses of anti androgens.
4. Effect of thyroid hormone on BMR.
5. Anti-metabolite.
6. Drawbacks of Penicillin G.
7. Autoimmune diseases.
8. Chronotherapy.
9. d-Penicillamine.
10. Teratogenicity.

****

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

(LN 4269) AUGUST 2018 **Sub. Code: 4269**

B.PHARM. DEGREE EXAMINATION
FOURTH YEAR
PAPER III – PHARMACOLOGY - II

Q.P. Code: 564269

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. a) Classify Sulfonamides. Discuss the mode of action, Adverse Drug Reaction and uses of Sulfonamides.
   b) Discuss the development of drug resistance by microorganism against anti-microbial agents.

2. a) Write elaborately on the general principals in the treatment of poisoning.
   b) Write notes on Heavy Metal Poisoning.

II. Write notes on: **(8 x 5 = 40)**

1. List out various Oral Contraceptives. Add a note on combined pill.
2. Classify Antiviral Agents. Discuss the mechanism of Nucloside Reverse Transcriptase Inhibitors.
3. What are Plasma Volume Expanders? Give example. Write notes on Dextron.
4. Classify antihistamines. Discuss the pharmacological actions and uses H_1 receptor antagonist.
5. Classify Anti-cancer agents. Write the mechanism of Alkylating Agents.
6. Define Conjunctivitis. Discuss the drugs used for the treatment of Conjunctivitis.
7. With suitable examples discuss the importance of Chronopharmacology.
8. Discuss the applications of Bio-Statistics in Pharmacy.

III. Short answers on: **(10 x 2 = 20)**

1. Examples for Beta lactamase inhibitor.
2. Write the uses of Metoclopramide.
3. Name two Anabolic Steroids.
4. Give example for Parenteral Iron Supplements.
5. Write the Pathophysiological role of Pentagastrin.
6. Define Oxytocics and Tocolytics with example.
7. Mention the uses of Terbinafine.
8. What is British Antilewisite? Write its therapeutic application.
9. Define the term Immunomodulators with example.
10. List out the toxicities of Aminoglycosides.

****

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

(LO 4269) FEBRUARY 2019 **Sub. Code: 4269**

B.PHARM. DEGREE EXAMINATION
FOURTH YEAR
PAPER III – PHARMACOLOGY - II

Q.P. Code: 564269

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. a) Define and classify Laxatives. Mention its uses. Discuss the mechanism of Bulk and Stimulant Purgatives.
   b) Write the composition and uses of Oral Rehydration Solution.

2. a) Define Clinical Trial. Discuss various phases of clinical trial.
   b) Write notes on Pre-clinical study.

II. Write notes on: **(8 x 5 = 40)**

1. Classify oral hypoglycaemic agents. Discuss the mechanism of sulfonylureas.
2. Describe the mechanism of antibiotics that inhibit cell wall synthesis with examples.
3. Write briefly on the role of Vitamin K in blood coagulation.
4. Discuss the biosynthesis and patho-physiological role of Serotonin.
5. Write the symptoms and treatment of Copper poisoning.
6. Define the term Glaucoma. Discuss the drugs used for the treatment of Glaucoma.
7. Define Chronopharmacology. Discuss the applications of Chronotherapeutics in the treatment of diseases.
8. Write notes on Immunostimulants.

III. Short answers on: **(10 x 2 = 20)**

1. Give examples for Second Generation Cephalosporins.
2. What is Acid Neutralizing Capacity of Antacids?
3. Name two Antithyroid Drugs.
4. Mention the uses and ADR of Clopidogrel.
5. Give example for Leukotriene Antagonist and write its uses.
6. Define ANOVA and write its application.
7. List out various toxicities of Chemotherapeutic Agents.
8. Define Teratogenicity. Give example.
9. What are the therapeutic uses of Artemether?
10. Name two Anticancer Antibiotics.

****

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

(LP 4269) AUGUST 2019 **Sub. Code: 4269**

B.PHARM. DEGREE EXAMINATION
FOURTH YEAR
PAPER III – PHARMACOLOGY - II

Q.P. Code: 564269

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Classify beta-lactam antibiotics and describe mechanism of action, therapeutic uses and adverse effect of any two beta-lactam antibiotics.

2. Classify antineoplastic agents. Discuss the mechanism of action, adverse drug reaction, therapeutic uses of alkylating agents and antimetabolites.

II. Write notes on: **(8 x 5 = 40)**

1. Define and classify fibrinolytics. Write the significance of newer heparin derivatives.
2. Describe the phases involved in clinical trials.
3. Write therapeutic uses and side effects of sulphonamides.
4. Classify antiulcer agents. Describe the H_2 receptor blockers.
5. Write note on anti fungal agents.
6. Explain mechanism of action of fluoroquinolones.
7. Describe various types of poisoning and its treatment.
8. Write note on immunosuppressant.

III. Short answers on: **(10 x 2 = 20)**

1. Write the functions of serotonin.
2. Give examples for osmotic purgative.
3. Write two uses of prostaglandin agonist.
4. Name the two anti-thyroid drugs.
5. Note on triple response.
6. Define the term lepra reaction.
7. What is the antidote for lead poisoning?
8. Name any two prokinetics.
9. What is ANOVA?
10. Note on therapeutic use of betahistine.

****

THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY

(LQ 4269) FEBRUARY 2020 **Sub. Code: 4269**

B.PHARM. DEGREE EXAMINATION
FOURTH YEAR
PAPER III – PHARMACOLOGY - II

Q.P. Code: 564269

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Classification of anti-tubercular drugs. Describe briefly the mechanism of action adverse drug reaction, and therapeutic uses of Isoniazid.

2. a) Classify antihistamine drugs, discuss the mechanism of action, therapeutic uses and adverse effects of first generation H_1 receptor antagonist.
   b) What are the advantages of second generation H_1 receptor antagonist?

II. Write notes on: **(8 x 5 = 40)**

1. Proton pump inhibitors and its uses.
2. Write notes on Metronidazole.
3. Write the symptoms and treatment of Lead poisoning.
4. Drugs used in the therapy of Migraine.
5. Write briefly on the role of Fibrinolysis in Cardiovascular diseases.
6. Discuss the third generation Cephalosporin.
7. Describe the biological clocks and their significance.
8. Advantages and disadvantages of Radioactive Iodine.

III. Short answers on: **(10 x 2 = 20)**

1. Rationale of using prostaglandin analogue in peptic ulcer.
2. Adverse effects of Tetracycline.
3. Name two drugs used in Hepatitis and mention their common adverse effects.
4. Comment the usefulness of Sulfasalazine in inflammatory bowel disease.
5. What is post marketing surveillance?
6. Drugs for erectile dysfunction.
7. Role of substance “P”.
8. Mention the therapeutic uses of Mifepristone.
9. Name two antifungal antibiotics.
10. Give example for parenteral Iron supplements.

****