

(LQ 2054)

MARCH 2020

Sub. Code: 2054

B.PHARM. DEGREE EXAMINATION
PCI Regulation – SEMESTER V
PAPER III – PHARMACOLOGY – II

Q.P. Code: 562054

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Define and classify oral anti-diabetic drugs. Write the pharmacological actions, adverse effects and therapeutic uses of sulphonyl urea derivatives.
2. Classify NSAIDs. Elaborate the mechanism of action, pharmacology, adverse effects and therapeutic uses of salicylates.
3. Define Bio-assay. Classify it and write in detail about the bio-assay of digitalis.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Write a note on substance P.
2. Pharmacology of Digitalis.
3. Briefly explain about the pharmacology of Furosemide.
4. Add a note on Low molecular weight Heparin.
5. Give the mechanism of action, adverse effects and therapeutic uses of organic nitrates.
6. Write a brief note on Oral contraceptives.
7. Pharmacology of Growth hormone inhibitors.
8. Pharmacology and adverse effects of Enalapril.
9. Classify anti-arrhythmic drugs. Give the Pharmacology of Quinidine.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Define Haematinics. Give four examples.
2. Define oxytocic. Give example.
3. Two therapeutic uses of Atenolol.
4. Give four drugs used as anticoagulants.
5. Name two drugs to treat Goiter.
6. List out four selective 5-HT antagonists.
7. What are leukotrienes?
8. Define shock. Classify it.
9. Uses of osmotic diuretics.
10. Define anaphylaxis and give the drug of choice to treat it.

[BPHARM 0921]

SEPTEMBER 2021
(SEPTEMBER 2020 EXAM SESSION)

Sub. Code: 2054

B.PHARM. DEGREE EXAMINATION
PCI Regulation 2017 – SEMESTER V
PAPER III – PHARMACOLOGY – II

Q.P. Code: 562054

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Define Autocoids .Write the pharmacological actions of Histamine and treatment of anaphylaxis.
2. Classify antihypertensives. Elaborate the mechanism of action, pharmacology, adverse effects and therapeutic uses of calcium channel blockers.
3. Define Bio-assay. Classify it and write in detail about the bio-assay of d-tubocurarine

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Write a note on Plasma volume expanders.
2. Pharmacology and side effects of prednisolone.
3. Classify antithyroid drugs. Briefly explain the pharmacology of propylthiouracil.
4. Write a note on preparations of Insulin.
5. Give the adverse effects and therapeutic uses of an anabolic steroid Nandrolone.
6. Classify DMARDs and add a brief note on hydroxy chloroquine.
7. Pharmacology of paracetamol and treatment of acute paracetamol poisoning.
8. Pharmacology and adverse effects of Allopurinol.
9. Define and Classify antihyperlipidemic drugs. List out various uses of it.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Define thrombolytic agents. Give two examples.
2. Define migraine. Give four drugs to treat migraine.
3. Name the hormones acting on Uterus.
4. Give two drugs to induce ovulation.
5. Side effects of oestrogen therapy.
6. List out four topical antiseptic containing Iodine.
7. Major complications in chronic Diabetic mellitus.
8. Define and Classify antianginal drugs.
9. Uses of Carbonic anhydrase inhibitors.
10. List out two hormones regulating calcium level.

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

[BPHARM 0122]

**JANUARY 2022
(MARCH 2021 EXAM SESSION)**

Sub. Code: 2054

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER V

PAPER III – PHARMACOLOGY – II

Q.P. Code: 562054

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Define and classify antihistaminic drugs .Write the pharmacological actions, adverse effects and therapeutic uses of Chlorpheniramine maleate.
2. Classify anti- arrhythmic drugs. Elaborate the mechanism of action, pharmacology, adverse effects and therapeutic uses of Quinidine.
3. List out various oral anticoagulants. Write the pharmacological actions, adverse effects and therapeutic uses of Coumarin derivatives.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Write a note on the Pharmacology and adverse effects of Atorvastatin.
2. Bio assay of Insulin.
3. Briefly explain the pharmacology of potassium sparing diuretics.
4. Give the difference between Heparin and Low molecular weight Heparin.
5. Give the mechanism of action, adverse effects and therapeutic uses of Nifedipine.
6. Write a brief notes on prolactin inhibitors.
7. Pharmacology of Calcitonin.
8. Pharmacology and adverse effects of Biguanides.
9. State various phases of cardiac potential.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Adverse effects of Aspirin.
2. Define anti-gout drugs. Give four examples.
3. Two adverse effects of clonidine.
4. Give four drugs used as anticoagulants.
5. What is Urolithiasis? Give four examples of drugs to treat it.
6. List out four prostoglandin antagonists.
7. State the adverse effects of Heparin.
8. Define cardiotonics. Give the therapeutic uses of it.
9. Uses of HMG Co-A reductase inhibitors.
10. Define vasodilators and give two examples.

[BPHARM 0522]

MAY 2022
(SEPTEMBER 2021 EXAM SESSION)

Sub. Code: 2054

B.PHARM. DEGREE EXAMINATION
PCI Regulation 2017 – SEMESTER V
PAPER III – PHARMACOLOGY – II

Q.P. Code: 562054

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Define Anti-hyperlipidemics and classify them with examples. Explain in detail the mechanism of action, pharmacological action, side effects and uses of statins.
2. Classify oral contraceptives with examples. Write its pharmacological actions, MAO, adverse effects and therapeutic uses.
3. Define anticoagulants and its classification; explain in detail the mechanism of action, pharmacological action, side effects and uses of heparin.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Insulin preparations.
2. Anabolic steroids.
3. Drugs used in congestive heart failure.
4. Low Molecular Weight (LMWH) Heparin
5. Classify anti-histaminic agents.
6. Leukotrienes.
7. Classification of Antirheumatic drugs.
8. Write on the Parathormone.
9. Bioassay of histamine.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Give two examples of phenylalanine analogues.
2. Clinical uses of pituitary hormone.
3. List out the adverse effects of glucocorticoids.
4. Mention two uses of isosorbide mononitrate.
5. Write the therapeutic uses of thyroid hormones synthesis inhibitors.
6. Name two beta blockers.
7. Give two examples of 5-HT antagonists.
8. Two therapeutic uses of digitalis.
9. Name two alpha glucosidase inhibitors drugs.
10. Therapeutic use of Alteplase.

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[BPHARM 1022]

**OCTOBER 2022
(MARCH 2022 EXAM SESSION)**

Sub. Code: 2054

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER V

PAPER III – PHARMACOLOGY II

Q.P. Code: 562054

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Classify corticosteroids Discuss mechanism of action, uses and adverse effects of glucocorticoids.
2. Define bioassay. List out the principles of bioassay and explain the bioassay of Insulin.
3. What are Cardiac glycosides? Explain in detailed Mechanism action, pharmacological effects and adverse efforts of digitalis.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Nitroglycerin.
2. Pharmacological action of anti platelet drugs.
3. Carbonic anhydrase inhibitors.
4. COX II inhibitors.
5. Gonadotropins.
6. Write notes on membrane stabilizing agents in arrhythmias.
7. Dextran.
8. Treatment of Anaphylactic Shock.
9. Pharmacological action of 5HT.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Define analgesic with example.
2. Define oxytocics with example.
3. Role of diuretics in CHF.
4. Pottasium Sparing diuretics.
5. Name two drugs of anti gout drugs.
6. Give two example of anti thyroid drugs.
7. Calcium channel blocker with example.
8. Give two examples of inhibitor of dipeptyl dipeptidase -4.
9. Give two uses of parathormone.
10. Name two uses of Prostaglandins.

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[B.PHARM 0323]

**MARCH 2023
(SEPTEMBER 2022 EXAM SESSION)**

Sub. Code: 2054

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 – SEMESTER V
PAPER III – PHARMACOLOGY II**

Q.P. Code: 562054

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Define diuretics and classify with examples. Explain in detail the mechanism of action, pharmacological action, side effects and uses of loop diuretics.
2. Classify Anti-arrhythmic drugs. Write the pharmacological action, adverse effects and therapeutic uses of Class I drugs.
3. Define Bioassay and its types; explain the methods of Bioassay of digitalis.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Drug used in the therapy of shock.
2. Plasma volume expanders.
3. Pharmacological actions of Anti platelets drugs.
4. Classify Fibrinolytic and write its therapeutic uses.
5. Classify Non-steroidal anti-inflammatory agents.
6. Angiotensin.
7. Classification of anti-thyroid drugs.
8. Write on the Drugs acting on the uterus.
9. Low molecular weight heparin.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Give two examples of lipid lowering drugs.
2. Clinical uses of progesterone.
3. Define Anti-diuretics.
4. Mention two uses of insulin.
5. Write the hormones secreted from posterior Pituitary gland.
6. Name two oral anticoagulants.
7. Give two examples of calcium channel blocker.
8. Two therapeutic uses of adrenal hormone.
9. Name two angiotensin II antagonist drugs.
10. Give two examples of second generation sulfonylureas agents.

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[B.PHARM 0823]

**AUGUST 2023
(MARCH 2023 EXAM SESSION)**

Sub. Code: 2054

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 – SEMESTER V
PAPER III – PHARMACOLOGY – II**

Q.P. Code: 562054

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Classify antihypertensives. Discuss the mechanism of action, pharmacological actions, adverse drug reactions and uses of Angiotensin Converting Enzyme (ACE) inhibitors.
2. Classify Non-Steroidal Anti-inflammatory Drugs (NSAIDs). Enumerate the mechanism of action, pharmacological action, adverse drug reactions and uses of any one drug.
3. Oral hypoglycemic agents.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Fibrinolytics.
2. Oral contraceptives.
3. 5-HT antagonists.
4. Bio-assay of histamine.
5. HMG Co-A (3-Hydroxy 3-methyl Glutaryl Co A) reductase inhibitors.
6. Spironolactone
7. Low Molecular Weight Heparin (LMWH).
8. Loop diuretics.
9. Anabolic steroids.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Mechanism of action and uses of Isosorbate Di Nitrite (ISDN).
2. Write the uses of Alteplase.
3. Give two examples of drugs for Cardiogenic shock.
4. Define tocolytics.
5. Give two examples for Plasma expanders.
6. Name two uses of Parathyroid hormone.
7. Define Abortifacient with examples.
8. Name two uses of Anabolic steroids.
9. List the Adverse drug reactions of Glucocorticoids.
10. Name two Uricosuric agents.

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

[B.PHARM 1223]

**DECEMBER 2023
(SEPTEMBER 2023 EXAM SESSION)**

Sub. Code: 2054

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER V

PAPER III – PHARMACOLOGY – II

Q.P. Code: 562054

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Classify Congestive Cardiac Failure (CCF) drugs. Discuss the Mechanism of action, Pharmacological action, adverse drug reactions and uses of digoxin.
2. Classify Fibrinolytics. Discuss the Mechanism of action, Pharmacological action, adverse drug reactions and uses of them.
3. Classify Diuretics. Discuss the Mechanism of action, Pharmacological action, adverse drug reactions and uses of thiazide diuretics.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Synthetic Progestins.
2. Bioassay of d-Tubocurarine.
3. Oral hypoglycemic agents.
4. Mechanism of action of Glyceryl trinitrate.
5. Oxytocics.
6. Anti-thyroid drugs.
7. Dipeptidyl Peptidase-4 inhibitors (DPP-4).
8. Low Molecular Weight Heparin.
9. Anti-inflammatory drugs.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Mention two uses of β -blockers.
2. Adverse Drug Reactions of Glucocorticoids.
3. Mention two uses of 5-HT (Serotonin) blockers.
4. Name two uses of clopidogrel.
5. Give two examples of anabolic steroids.
6. Mention any two tocolytics.
7. Name two Prostaglandins analogues.
8. Arterial and venous vasodilators.
9. Uses of Angiotensin Converting Enzyme (ACE) inhibitors.
10. Clomiphene citrate.

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 – SEMESTER V
PAPER III – PHARMACOLOGY – II

Q.P. Code: 562054

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Classify Anti-hyperlipidemic drugs. Discuss the mechanism of action and adverse effects of atorvastatin.
2. Define diuretics. Classify them with examples. Explain in detail the mechanism of action, pharmacological action, side effects and uses of Thiazide diuretics.
3. Discuss the pharmacology of prostaglandins, thromboxanes and leukotrienes. How are these molecules synthesized and what are their physiological effects in different tissues?

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Write the mechanisms of action and therapeutic uses of beta-blockers and calcium channel blockers as anti-hypertensive drugs.
2. Discuss the pharmacological management of gout.
3. Discuss the therapeutic use of analogs and inhibitors of anterior pituitary hormones.
4. Describe the roles of parathyroid hormone and targeted pharmacologically.
5. Classify oral hypoglycemic agents.
6. Discuss the mechanisms of action and clinical uses of insulin.
7. Explain the pharmacology of oral contraceptives.
8. What are the principles and applications of bioassay in pharmacology?
9. Discuss the pharmacology of fibrinolytics.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. How do anti-platelet drugs help in the management of thromboembolic disorders?
2. What are plasma volume expanders and what conditions are they used for? Give examples.
3. Differentiate between anti-gout drugs and antirheumatic drugs.
4. Explain the roles of Parathormone.
5. Write the hormones secreted from the posterior pituitary gland.
6. What are the therapeutic uses of ACTH and corticosteroids?
7. Give two examples of selective α_1 blockers.
8. Provide an overview of different bioassays used in pharmaceutical research.
9. Name two angiotensin receptor blockers.
10. Name two cardio-selective beta blockers.

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

[B.PHARM 1024]

**OCTOBER 2024
(SEPTEMBER 2024 EXAM SESSION)**

Sub. Code: 2054

B. PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER V

PAPER III – PHARMACOLOGY – II

Q.P. Code: 562054

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Classify Anti-hypertensive drugs. Discuss the mode of action pharmacology and adverse effects of Angiotension II receptor blockers.
2. Classify Diuretic drugs. Write in details about mechanism of action, therapeutic uses and adverse effects of high ceiling diuretics.
3. Classify NSAID'S with examples. Discuss the Mechanism of action and Therapeutic use of Aspirin.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Potassium channel activators.
2. Anti Coagulant.
3. Allopurinol.
4. Classify 5-HT Antagonist with examples and their role in migraine.
5. Oral contraceptives.
6. Write notes on α (Alpha) – Glucosidase inhibitors.
7. Plasma Volume Expanders.
8. Treatment of Bacteremic Shock.
9. Pharmacological actions of H_1 antagonist.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Define Bioassay.
2. Define Tocolytic.
3. What is pheochromocytoma and the drug used in treatment?
4. Give two example of anti angina drugs.
5. Name two drugs of anti hyperlipidemic drugs.
6. Give two example of class IA Anti arrhythmic drugs.
7. What are synthetic Androgens?
8. List out few therapeutic uses of Misoprostol.
9. Give two examples of anti rheumatic drugs.
10. Name two anti platelet drugs.

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

[B.PHARM 0325]

MARCH 2025

Sub. Code: 2054

B. PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER V

PAPER III – PHARMACOLOGY – II

Q.P. Code: 562054

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Discuss the hemodynamic and electrophysiology of the heart. How do these concepts influence drug action on the cardiovascular system?
2. Discuss the key pharmacological agents employed and their mechanism of action to manage different types of shock.
3. Define autocoids and explain their classification and mechanism of action. Provide examples of each class and their physiological roles.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Give a short note on Bradykinin and Substance P.
2. Classify the antihyperlipidemics and explain its mechanism of action.
3. Write the classification and pharmacological actions of Antiplatelet drugs.
4. Plasma volume expanders.
5. Classify NSAIDs and write the mechanism of action of Paracetamol.
6. Discuss about Anti-rheumatic drugs.
7. Glucocorticoids.
8. Discuss about the pharmacology of thyroid hormone inhibitors.
9. Applications and types of bioassay.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Define diuretics and give examples.
2. Clinical uses of anabolic steroids.
3. Sodium Nitroprusside.
4. Mention two uses of vasopressin.
5. Write the hormones secreted from the thyroid gland.
6. Name two H₂ receptor blockers.
7. Mineralocorticoids.
8. Two therapeutic uses of ACTH.
9. Name two potassium channel blocking drugs.
10. Give two examples of Low Molecular Weight Heparin.

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

[B.PHARM 0925]

SEPTEMBER 2025

Sub. Code: 2054

B. PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER V

PAPER III – PHARMACOLOGY – II

Q.P. Code: 562054

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Classify antiarrhythmic drugs. Discuss the mechanism of action, adverse drug reactions, use of Class IA drugs.
2. Classify antihistaminic. Discuss the mechanism of action, adverse drug reactions, and uses of any one drug.
3. Classify Anti Gout agents. Discuss the mechanism and adverse reactions of Allopurinol.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Calcium channel blockers.
2. Angiotensin receptor blockers.
3. Potassium sparing diuretics.
4. Anti-thyroid drugs.
5. Antirheumatic drugs.
6. Anticoagulants.
7. Estrogen analogues.
8. List out the Insulin preparations.
9. Pharmacological actions of Levothyroxine.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Leucotriene antagonists.
2. Clinical uses of selective (Cyclooxygenase) COX-2 inhibitors.
3. What are minipills and its uses?
4. Name two drugs used in congestive cardiac failure.
5. Selective Estrogen Receptor Modulators (SERMs).
6. Mention the adverse effects of Corticosteroids.
7. Give two examples of Anti-androgens.
8. Clinical uses of Heparin.
9. Clinical uses of Mineralocorticoids.
10. What are Hematinics?
