

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

(LN 2020)

SEPTEMBER 2018

Sub. Code: 2020

**B.PHARM. DEGREE EXAMINATION
PCI REGULATION – SEMESTER II
FIRST YEAR
PAPER IV – PATHOPHYSIOLOGY**

Q.P. Code: 562020

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Explain about causes and pathogenesis of cell injury.
2. Give in detail about types of inflammation with their mechanism.
3. Discuss about etiology and pathogenesis of diabetes mellitus.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Describe the etiology of acute renal failure.
2. Write notes on clinical signs of inflammation.
3. Explain about classification of cancer.
4. Write briefly about pathogenesis of tuberculosis.
5. Give notes on gonorrhea and syphilis.
6. Define congestive heart failure and write its pathophysiology.
7. Write about inflammatory bowel diseases.
8. Explain the signs and symptoms of gout.
9. Explain about peptic ulcer disease.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Calcification.
2. Hypertrophy.
3. Metaplasia.
4. Atherosclerosis.
5. Myocardial infarction.
6. Megaloblastic anemia.
7. Stroke.
8. Osteoporosis.
9. What are the Causes for Schizophrenia?
10. Meningitis.

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

(LO 2020)

MARCH 2019

Sub. Code: 2020

B.PHARM. DEGREE EXAMINATION
PCI Regulation – SEMESTER II
PAPER IV – PATHOPHYSIOLOGY

Q.P. Code: 562020

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Discuss the etiology, and pathophysiology of Hypertension.
2. Describe on Pathophysiology of Acute renal failure and Chronic renal failure.
3. Define Diabetes. And write the causes, symptoms and pathophysiology of Diabetes.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Discuss about the Infections diseases.
2. Write short notes on mechanism of cellular inflammation.
3. Pathophysiology of Peptic Ulcer.
4. Notes on Parkinson's disease.
5. Enumerate on Pathophysiology Hepatitis.
6. Etiology of cancer.
7. Angina pectoris and their symptoms.
8. Syphilis and Gonorrhea.
9. Discuss briefly about the various hormone disorders.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Cytokines.
2. DOT therapy.
3. Signs of inflammation.
4. Hypertrophy.
5. Ketoacidosis.
6. Hematuria.
7. Atheroma.
8. Sign of Schizophrenia.
9. Gangrene.
10. Give the risk factors for AIDS.

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

(LP 2020)

SEPTEMBER 2019

Sub. Code: 2020

B.PHARM. DEGREE EXAMINATION
PCI Regulation – SEMESTER II
PAPER IV – PATHOPHYSIOLOGY

Q.P. Code: 562020

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Discuss about the various inflammatory mediators and their role in inflammatory process.
2. Describe the etiology and pathophysiology of congestive heart failure.
3. Elaborate on etiopathogenesis of iron deficiency anemia and megaloblastic anemia.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Etiology of various types of viral hepatitis.
2. Enumerate on pathophysiology of gout.
3. Write a note on etiopathogenesis of AIDS.
4. Define meningitis and write about different types of meningitis.
5. Write a note on various stages of alcoholic liver disease.
6. Enumerate on pathophysiology of Parkinson's disease.
7. Write causes and pathogenesis of acute renal failure.
8. Describe the different types of necrosis.
9. Write about various stages of urinary tract infection.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Define metaplasia with suitable example.
2. Cause and prevention of Gonorrhea.
3. Write the causes of extrinsic asthma.
4. List the etiology of peptic ulcer.
5. Grave's disease.
6. Write the causes of Osteoporosis.
7. Classify inflammatory bowel disease.
8. Define epilepsy.
9. Causes and prevention of typhoid.
10. What is wound healing?

(LQ 2020)

MARCH 2020

Sub. Code: 2020

B.PHARM. DEGREE EXAMINATION
PCI Regulation – SEMESTER II
PAPER IV – PATHOPHYSIOLOGY

Q.P. Code: 562020

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Describe on pathogenesis and morphology of Cell injury.
2. Define Asthma. Write the causes, symptoms and pathophysiology of Asthma.
3. Describe the etiology and pathophysiology of acute renal failure.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Discuss about the various Mediators of Inflammation.
2. Write notes on Epilepsy.
3. Describe briefly on Rheumatoid Arthritis.
4. Pathogenesis of Acquired Immunodeficiency Syndrome.
5. Explain Homeostasis and the concept of Negative feedback.
6. Enumerate on the Pathogenesis of Cancer.
7. Discuss the mode of transmission and pathophysiology of Leprosy.
8. Notes on Stroke and its etiology.
9. Write notes on Meningitis.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Haemolytic Anemia.
2. Hyperplasia.
3. Grave's disease.
4. Various stages of Chronic Kidney Disease.
5. Pathogenesis of Gout.
6. Define Goitre.
7. Acromegaly.
8. Angiogenesis.
9. Types of Acute Myocardial Infarction.
10. Ejection fraction.

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

[BPHARM 0321]

MARCH 2021

Sub. Code: 2020

(SEPTEMBER 2020 EXAM SESSION)

B. PHARMACY DEGREE EXAMINATION

PCI Regulation SEMESTER – II

PAPER IV – PATHOPHYSIOLOGY

Q.P. Code : 562020

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Describe in detail the etiology and pathogenesis of Congestive Heart Failure.
2. Elaborate on the pathogenesis, etiology and symptoms of any two Psychiatric Disorders.
3. Discuss in detail the various disorders of Thyroid Gland.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Write a note on Pathologic Calcification.
2. Acute Myocardial Infarction and its pathogenesis.
3. Discuss briefly on Gout.
4. Enumerate on the pathogenesis of Asthma.
5. Etiological causes of acquired and inherited Aplastic Anaemia.
6. Write short notes on Irreversible Cell Injury.
7. Notes on Chronic Inflammatory Cells and various secretions involved in Chronic Inflammation.
8. Discuss about the pathogenesis and clinical complications of Rheumatoid Arthritis.
9. Write notes on Acute Renal Failure.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Types of Depression.
2. Dysplasia.
3. Homeostasis.
4. Hypokalemia.
5. Haemolytic Jaundice.
6. Cushing's disease.
7. Epilepsy.
8. Hypertension.
9. Meningitis.
10. Glomerulonephritis.

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

[BPHARM 0122]

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

Sub. Code: 2020

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 – SEMESTER II
PAPER IV – PATHOPHYSIOLOGY
Q.P. Code : 562020**

Time: Three hours

Maximum: 75 Marks

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

1. Describe the etiology, pathogenesis and complications of Ischemic Heart Disease.
2. Elaborate on the etiology, symptoms and pathogenesis of Chronic Obstructive Pulmonary Disease.
3. Discuss the different types of blood disorders. And write the causes, symptoms and pathogenesis of Sickle Cell Anaemia and Hemophilia.

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

1. Discuss about the Cellular Adaptation.
2. Pathogenesis of Alzheimer's disease.
3. Discuss briefly on Osteoporosis.
4. Enumerate on pathogenesis of Tuberculosis.
5. Write note on Acute Inflammation.
6. Write short notes on Intercellular Accumulations.
7. Pathogenesis of Typhoid.
8. Pathogenesis and complications of Peptic Ulcer.
9. Notes on Urinary Tract Infections.

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

1. Necrosis.
2. Atrophy.
3. Difference between dystrophic and metastatic calcification.
4. Hypernatremia.
5. Wound Healing.
6. Extrinsic Asthma.
7. Types of Jaundice.
8. Haemorrhagic Stroke.
9. Hepatitis B Virus infection.
10. Clinical features of Leprosy.

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

[BPHARM 0522]

MAY 2022

Sub. Code: 2020

(SEPTEMBER 2021 EXAM SESSION)

B. PHARMACY DEGREE EXAMINATION

PCI Regulation SEMESTER - II

PAPER IV – PATHOPHYSIOLOGY

Q.P. Code : 562020

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Define Inflammation. Explain in detail the process of Inflammation.
2. Discuss the pathophysiology, causes and symptoms of congestive heart disease.
3. Discuss the different types of epilepsy and its pathophysiology.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Discuss about the types of Anaemia.
2. Write the pathophysiology and treatment for peptic ulcer.
3. Give the etiology and clinical features of ulcerative colitis.
4. What is Rheumatoid Arthritis? Give its causes and symptoms.
5. Write notes on types of urinary tract infections and its treatment.
6. Give notes on any two sexually transmitted diseases.
7. Explain about a disease of nervous system.
8. Give notes on inflammatory Bowel disease.
9. Discuss about pathophysiology of asthma.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Atheroma.
2. Angina.
3. Myocardial infarction.
4. Azotemia.
5. Suppuration.
6. Urolithiasis.
7. Gout.
8. Podagra.
9. Proctitis.
10. Thrombosis.

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

[BPHARM 1022]

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

Sub. Code: 2020

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER II

PAPER IV – PATHOPHYSIOLOGY

Q.P. Code : 562020

Time: Three hours

Maximum: 75 Marks

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

1. Describe on Pathogenesis and classification of Cancer.
2. Write in detail about Pathophysiology signs and symptoms of Acquired Immune Deficiency Syndrome.
3. Explain in brief about principles of Wound healing and mediators of Inflammation.

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

1. Pathophysiology of Hypertension.
2. Describe briefly on Gout.
3. Write note on Asthma.
4. Briefly describe on Acute Renal Failure.
5. Enumerate pathogenesis of Iron Deficiency Anemia.
6. Write the types, signs, symptoms and pathophysiology of Epilepsy.
7. Pathogenesis of Ulcer.
8. Etiology and pathophysiology of Tuberculosis.
9. Types and morphology of Cell Injury.

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

1. Causes of Gonorrhea.
2. Signs and symptoms of Meningitis.
3. Classification of Hepatitis.
4. List out Thyroid diseases.
5. Management of Megaloblastic Anemia.
6. Types of Angina.
7. Diapedesis.
8. Types of Jaundice.
9. Metaplasia.
10. Homeostasis.

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

[B.PHARM 0323]

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

Sub. Code: 2020

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 – SEMESTER II
PAPER IV – PATHOPHYSIOLOGY**

Q.P. Code: 562020

Time: Three hours

Maximum: 75 Marks

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

1. Explain in detail about causes, pathogenesis and morphology of Cellular Injury.
2. List out and describe on Ischemic Heart Diseases.
3. Write in detail about classification, etiology and pathogenesis of Urinary Tract Infections.

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

1. Describe briefly on Various Anemia.
2. Classification and pathophysiology of Gout.
3. Note on Colonic Cancer.
4. Classify psychiatric disorders and explain briefly about Depression.
5. Pathogenesis of Syphilis and Gonorrhea.
6. Signs, symptoms and pathogenesis of Diabetes.
7. Note on Chronic Renal Failure.
8. Cardinal signs of Inflammation.
9. Cause, pathogenesis, signs, symptoms and diagnostic method of Enteric Fever.

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

1. Meningitis.
2. Dots Therapy.
3. Causes and transmissions of Hepatitis B.
4. List out inflammation Bowel Disease.
5. Helicobacter Pylorus Infection.
6. Types of Epilepsy.
7. Steatosis.
8. Margination.
9. Causes and transmissions of leprosy.
10. Dysplasia.

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

[B.PHARM 0823]

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

Sub. Code: 2020

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 – SEMESTER II
PAPER IV – PATHOPHYSIOLOGY**

Q.P. Code: 562020

Time: Three hours

Maximum: 75 Marks

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

1. Explain the tissue adaptive process after a stimulus with suitable diagram and example.
2. What are the etiologies of chronic renal failure? Explain its symptoms.
3. What is peptic ulcer? Explain the management of peptic ulcer.

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

1. What is the role of COX enzyme in inflammation process?
2. Write the various sources of cell injury.
3. What is COPD? Write its pathogenesis.
4. Enumerate on Pathogenesis of Tuberculosis.
5. Write a note on jaundice.
6. How the hormone imbalance contributes to the pathogenesis of osteoporosis?
7. How cancer is classified?
8. Write the management of meningitis.
9. What are the symptoms of syphilis? State the contributing organism of syphilis and its management.

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

1. Define term pain and inflammation.
2. What is mean by acidosis and alkalosis?
3. What is physiological dead space?
4. Define the term: a) Oliguria, b) Polyurea, c) Hematuria, d) Uricemia.
5. Write two symptoms of Prinzmetal angina.
6. What is sickle cell anemia?
7. How dopamine is correlated to schizophrenia?
8. State the importance of iodide in thyroid hormone disorders.
9. What are the pathogenic antigens of HIV?
10. Why vitamin B12 and iron is required to prevent anemia?

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

[B.PHARM 0524]

MAY 2024

Sub. Code: 2020

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER II

PAPER IV – PATHOPHYSIOLOGY

Q.P. Code: 562020

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Explain the role of inflammatory mediators and its importance in tissue injury and healing.
2. What is hypertension? Write its etiology and management of hypertensive disorders.
3. Define Anemia. Explain different types of anemia.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. What is meant by chemoattractant property?
2. Explain intercellular accumulation property of a cell.
3. Write the management of congestive cardiac failure.
4. Classify diabetes. How stress contributes in diabetes pathology?
5. Write a note on irritable bowel syndrome.
6. What are the contributing pathological factors of Gout?
7. State the factors induce cancer.
8. What are infectious diseases? Give the causative organism and management of TB.
9. Write a note on AIDS.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. What is mean by vascular permeability?
2. Define the term a) Hypertrophy b) Metaplasia.
3. What is mean by ejection fraction? Write its normal value.
4. How peripheral resistance contributes to hypertension?
5. Why apoptosis is important?
6. Write the management of megaloblastic anemia.
7. State the role of 5HT in depressive disorder.
8. What is mean by autoimmune disorders? Give one example.
9. Write the causative organism and symptoms of typhoid fever.
10. What is mean by cardiac output and venous return?

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

[B.PHARM 1024]

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

Sub. Code: 2020

B. PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER II

PAPER IV – PATHOPHYSIOLOGY

Q.P. Code: 562020

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Describe the etiology, pathogenesis and complications of Asthma.
2. Classify psychiatric disorders and elaborate on the pathogenesis, etiology and symptoms of any one Psychiatric Disorder.
3. What is meant by Wound? Explain the basic principle involved in the wound healing.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Causes and Stages of Chronic Renal failure.
2. Write notes on types of urinary tract infections and its treatment.
3. Discuss briefly about Thalassemia.
4. Write short notes on Hyperthyroidism.
5. Describe the symptoms and Diagnostic methods of Jaundice.
6. What is the role of Helicobacter pylori in Peptic ulcer?
7. What are the symptoms of syphilis? Write the causative organism of syphilis and its management.
8. Discuss about the Osteoporosis and clinical complication.
9. Describe different types of Necrosis.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. What is Positive Feedback? Give example.
2. Clinical signs of inflammation.
3. Pre-eclampsia.
4. What is Idiopathic disease? Give example.
5. Types of Depression.
6. Cause and symptoms of Leprosy.
7. Cause and Transmission of Hepatitis B.
8. Emphysema.
9. Chemotherapy.
10. Tonic-clonic seizures.

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

[B.PHARM 0325]

MARCH 2025

Sub. Code: 2020

B. PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER II

PAPER IV – PATHOPHYSIOLOGY

Q.P. Code: 562020

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Define inflammation. Explain their types and mechanism.
2. Write in detail about classification, etiology and pathogenesis of Urinary Tract Infections.
3. Discuss in detail the various disorders of Thyroid Gland.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Discuss about Acidosis and alkalosis.
2. What is Peptic Ulcer? Explain the etiology and symptoms.
3. Notes on Arteriosclerosis.
4. Why Osteoporosis more common in female and how to treat it clinically?
5. Write the Cause, Symptoms and Management of Meningitis.
6. Explain briefly about Depression.
7. Symptoms and Management of Iron Deficiency Anemia.
8. What is COPD? Write the Symptoms and Diagnostic methods.
9. How can reduce the risk of getting AIDS?

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Define the term: a) Atrophy b) Dysplasia.
2. Phagocytosis.
3. Extrinsic Asthma.
4. What is Embolic stroke?
5. Causes and Prevention of Gonorrhea.
6. List out Inflammation Bowel Disease (IBD).
7. Types of Diabetes mellitus.
8. Gynaecomastia.
9. Schizophrenia.
10. Symptoms of Rheumatoid Arthritis.
