

August 2011

[KZ 6258]

Sub. Code : 6258

BACHELOR OF PHYSIOTHERAPY EXAMINATION

SECOND YEAR

Paper IV – MICROBIOLOGY AND PATHOLOGY

Q.P. Code : 746258

Time : Three hours

Maximum : 100 marks

ANSWER ALL QUESTIONS

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

(MICROBIOLOGY)

I. LONG ESSAYS

(1X20=20)

1. Discuss about the different types of immunity and their mechanism.

II. SHORT NOTES

(4X5=20)

1. Meningitis.
2. Tetanus.
3. Different types of Hypersensitivity.
4. Dry Heat Sterilization.

III. SHORT ANSWERS

(5X2=10)

1. Define Infection.
2. Polio.
3. Prions.
4. Flagella.
5. Enteric fever.

**SECTION-B
(PATHOLOGY)**

I. LONG ESSAYS

(1X20=20)

1. Give a detailed account on Auto immune diseases.

II. SHORT NOTES

(4X5=20)

1. Write note on Embolism.
2. Discuss about the types of Gangrene.
3. Define Apoptosis and explain the mechanism.
4. Write note on pneumonia.

III. SHORT ANSWERS

(5X2=10)

1. Emphysema.
2. Thrombosis.
3. Regeneration.
4. Metastasis.
5. Myasthenia gravis.

February 2012

[LA 6258]

Sub. Code: 6258

BACHELOR OF PHYSIOTHERAPY EXAMINATION

SECOND YEAR

Paper IV – MICROBIOLOGY AND PATHOLOGY

Q.P. Code: 746258

Time : Three hours

Maximum : 100 marks

ANSWER ALL QUESTIONS

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

(MICROBIOLOGY)

I. Elaborate on: (1 x 20 = 20)

1. Discuss in detail the physical and chemical method of Sterilization, its mode of action and application.

II. Write notes on: (4 x 5 = 20)

1. Diphtheria.
2. Nosocomial infection.
3. Serum Hepatitis.
4. Sources of Infection.

III. Short Answers: (5 x 2 = 10)

1. BCG.
2. Types of Antibody.
3. Symmetry of virus.
4. Lepromin Test.
5. Write any three Anaerobic Infections.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define inflammation. What are the types and signs of inflammation? Discuss the vascular events of acute inflammation. Add a note on primary wound healing.

II. Write notes on: (4 x 5 = 20)

1. Lobar pneumonia.
2. Types of necrosis.
3. Rickets.
4. Features of malignant tumors.

III. Short Answers: (5 x 2 = 10)

1. Primary complex.
2. Lepromatous leprosy.
3. Apoptosis.
4. Pericarditis.
5. Viral meningitis.

[LB 6258]

AUGUST 2012

Sub. Code: 6258

SECOND YEAR BPT EXAM

Paper IV – MICROBIOLOGY AND PATHOLOGY

Q.P. Code: 746258

Time : Three hours

Maximum : 100 marks

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

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

(MICROBIOLOGY)

I. Elaborate on:

**Pages Time Marks
(Max.)(Max.)(Max.)**

1. Enumerate the sexually transmitted diseases and give a detail note on Gonorrhea and AIDS.

19 33 20

II. Write Notes on:

1. Anaphylaxis.
2. Tetanus.
3. Enteric fever.
4. Difference between Active and Passive immunity.

3 8 5
3 8 5
3 8 5
3 8 5

III. Short Answer:

1. Antigen.
2. Disinfectant.
3. Carrier.
4. Crede's method.
5. Example for RNA Virus.

1 5 2
1 5 2
1 5 2
1 5 2
1 5 2

**SECTION-B
(PATHOLOGY)**

I. Elaborate on:

1. Detailed discussion about Wound Healing.

19 33 20

II. Write Notes on:

1. Primary Tuberculosis.
2. Characteristic features of Malignant tumours.
3. Asthma.
4. Gout.

3 8 5
3 8 5
3 8 5
3 8 5

III. Short Answer:

1. Red Infarct.
2. Pathological Calcification.
3. List out causes of Chronic Obstructive Pulmonary Diseases (COPD).
4. Chronic Venous Congestion of liver (CVC liver).
5. Four complications of Myocardial Infarction

1 5 2
1 5 2
1 5 2
1 5 2
1 5 2

[LC 6258]

FEBRUARY 2013

Sub. Code: 6258

SECOND YEAR BPT EXAM

Paper IV – MICROBIOLOGY AND PATHOLOGY

Q.P. Code: 746258

**Time: Three hours
(180 Min)**

Maximum : 100 marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1X20=20)

1. Give a detail account on AIDS.

II. Write Notes on: (4X5=20)

1. Describe the structure of bacterial spore.
2. Briefly explain about the different types of serological reactions.
3. Write note on urinary tract infection.
4. How will you classify virus.

III. Short Answer: (5X2=10)

1. Define capsule.
2. What are diptheroids?
3. Mantoux test.
4. What is meant by Anaphylaxis?
5. Hepatitis.

**SECTION-B
(PATHOLOGY)**

I. Elaborate on: (1X20=20)

1. Define cancer. Explain about different types of tumor, its pathogenesis and treatment.

II. Write Notes on: (4X5=20)

1. Briefly explain about ARDS.
2. Describe phagocytosis.
3. Discuss about various types of pneumonia.
4. Write note on Healing Process.

III. Short Answer: (5X2=10)

1. Hansen's diseases.
2. Typhoid.
3. Volkmann's Ischaemia.
4. Asthma.
5. Psoriasis.

[LD 6258]

AUGUST 2013

Sub. Code: 6258

SECOND YEAR BPT EXAM

PAPER IV – MICROBIOLOGY AND PATHOLOGY

Q.P. Code : 746258

Time: Three Hours

Maximum: 100 marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on:

(1X20=20)

1. Enumerate the causative agents of Viral hepatitis. Discuss in detail the laboratory diagnosis of Hepatitis B.

II. Write Notes on:

(4X5=20)

1. Type 1 hypersensitivity reaction.
2. ELISA
3. Mode of spread of infection.
4. Typhoid fever.

III. Short Answer:

(5X2=10)

1. Draw the diagram and label the HIV virus.
2. Name two organisms causing meningitis.
3. Mention two auto immune diseases.
4. Name two transport media for Vibrio Cholera specimens.
5. Mention two antigen antibody reactions.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on:

(1X20=20)

1. Define necrosis. Mention the types. Explain the causes and pathology of each type of necrosis.

II. Write Notes on:

(4X5=20)

1. Define Gangrene. Mention the difference between dry and wet gangrene.
2. Pathogenesis of septic shock.
3. Rheumatic heart disease.
4. Lobar pneumonia.

III. Short Answer:

(5X2=10)

1. Heart failure cells.
2. Types of leprosy.
3. White infarct.
4. Wet gangrene.
5. Ankylosing spondylosis.

[LE 6258]

FEBRUARY 2014

Sub. Code: 6258

SECOND YEAR BPT EXAM

PAPER V – MICROBIOLOGY AND PATHOLOGY

Q.P. Code : 746258

Time: Three Hours

Maximum: 100 marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on:

(1X20=20)

1. Enumerate organisms causing food poisoning. Write about the pathogenesis and lab. diagnosis of Vibrio Cholera.

II. Write Notes on:

(4X5=20)

1. Active Immunity.
2. Moist heat sterilization.
3. Hospital acquired infections.
4. Opportunistic infections in HIV.

III. Short Answer:

(5X2=10)

1. Name two polio vaccines.
2. Give two examples of acid fast bacilli.
3. Flagella.
4. Name four organisms causing wound infections.
5. Define sterilization.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on:

(1X20=20)

1. a.) Healing by primary and secondary intention.
b) Factors influencing wound healing
c) Complications of wound healing.

II. Write Notes on:

(4X5=20)

1. Myasthenia gravis.
2. Pulmonary edema
3. Fracture healing
4. Benign tumours.

III. Short Answer:

(5X2=10)

1. Gout.
2. Tuberculoid leprosy.
3. Gangrene.
4. Dysplasia.
5. Teratoma.

[LF 6258]

AUGUST 2014

Sub. Code: 6258

**SECOND YEAR BPT EXAM
PAPER V – MICROBIOLOGY AND PATHOLOGY**

Q.P. Code : 746258

Time: Three Hours

Maximum: 100 marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1X20=20)

1. Define Immunity, classify the various types and write in detail about natural Immunity.

II. Write Notes on: (4X5=20)

1. Draw a diagram of bacterial cell.
2. Gram stain.
3. Autoclave.
4. Urinary tract infection.

III. Short Answer: (5X2=10)

1. Define infection.
2. Nosocomial infection.
3. Define respiratory tract infection.
4. Oral thrush.
5. Polio vaccine.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1X20=20)

1. Define Osteoarthritis. Describe etiology, Pathogenesis and features of Rheumatoid arthritis.

II. Write Notes on: (4X5=20)

1. Discuss Bronchiectasis.
2. Discuss Chemotaxis and Phagocytosis. Classify chemical Mediators.
3. Congenital heart disease.
4. TB Spine.

III. Short Answer: (5X2=10)

1. Parkinsonism.
2. Cor Pulmonale.
3. Atherosclerosis risk factors.
4. Myasthenia Gravis.
5. Osteoporosis.

[LG 6258]

FEBRUARY 2015

Sub. Code: 6258

**BPT DEGREE EXAMINATION
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY**

Q.P. Code : 746258

Time: Three hours

Maximum: 100 marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: **(1 x 20 = 20)**

1. Define hypersensitivity. Describe in detail the types of hypersensitivity with suitable examples.

II. Write notes on: **(4 x 5 = 20)**

1. Bacterial cell Anatomy
2. Widal test
3. Antibiotic sensitivity tests
4. Human immune deficiency virus

III. Short answers on: **(5 x 2 = 10)**

1. Classify Bacteria on the Basis of shape
2. Structure of Endospore
3. Polio vaccine
4. Define Cross infection and Subclinical infection
5. Write the Koch's postulates

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: **(1 x 20 = 20)**

1. Describe the atherosclerotic plaque. Write on the theories of pathogenesis of plaque formation.

II. Write notes on: **(4 x 5 = 20)**

1. Edema. Differences between Exudate and Transudate
2. Hypovolaemic shock
3. Rheumatic fever
4. Air or Gas embolism

III. Short answers on: **(5 x 2 = 10)**

1. Healing by second intention
2. Rheumatoid arthritis
3. Malignant tumours
4. Paradoxical embolus
5. Caseous necrosis

BPT DEGREE EXAMINATION
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY

Q.P. Code: 746258

Time : Three Hours

Maximum : 100 marks

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(MICROBIOLOGY)

I. Elaborate on: **(1 x 20 = 20)**

1. What is Infection? Name the types of infection. Name the sources, mode of transmission and factors predisposing to microbial pathogenicity.

II. Write notes on: **(4 x 5 = 20)**

1. Sterilization and its types.
2. Delayed type hypersensitivity.
3. Antigenic structure of Streptococcus pyogenes.
4. Lab Diagnosis of Hepatitis B.

III. Short Answers on: **(5 x 2 = 10)**

1. Four differences between Gram +ve cell wall and gram –ve cell wall.
2. DPT Vaccine.
3. List four organisms causing Hospital Acquired Infection.
4. Draw the diagram and label parts of HIV.
5. Name four atypical mycobacteria.

SECTION-B
(PATHOLOGY)

I. Elaborate on: **(1 x 20 = 20)**

1. Define Emphysema. Enumerate the diseases producing central Air flow Obstruction. Describe in detail the pathogenesis of types of Emphysema.

II. Write notes on: **(4 x 5 = 20)**

1. Virchow's Triad.
2. Differences between benign and malignant tumours.
3. Apoptosis.
4. Chronic bronchitis.

III. Short Answers on: **(5 x 2 = 10)**

1. Lobar pneumonia.
2. Cerebral edema.
3. Osteo arthritis.
4. Gout.
5. Thrombosis.

[LI 6258]

FEBRUARY 2016

Sub. Code: 6258

**BPT DEGREE EXAMINATION
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY**

Q.P. Code : 746258

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Enumerate the viruses causing hepatitis. Describe the morphology, clinical features, pathogenicity, laboratory diagnosis and prevention of Hepatitis C Virus.

II. Write notes on: (4 x 5 = 20)

1. Antigens of HIV.
2. Tissue culture.
3. Enrichment media.
4. Pathogenesis of *Corynebacterium diphtheriae*.

III. Short answers on: (5 x 2 = 10)

1. Widal test.
2. Oral thrush.
3. Herpes virus.
4. Route of egg inoculation.
5. Measles vaccine.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Elaborate on Pneumonia. Enumerate the types of Pneumonia. Describe in detail about the pathogenesis, stages and complications of Pneumonia.

II. Write notes on: (4 x 5 = 20)

1. Types of Necrosis.
2. Factors influencing wound healing.
3. Osteomyelitis.
4. Differences between Benign and Malignant Tumors.

III. Short answers on: (5 x 2 = 10)

1. Primary complex in TB.
2. Polio.
3. Shock and types.
4. Gout.
5. Thrombosis.

[LJ 6258]

AUGUST 2016

Sub. Code: 6258

**BPT DEGREE EXAMINATION
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY**

Q.P. Code : 746258

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Describe the etiology, morphology, cultural characteristics, pathogenicity, laboratory diagnosis and prevention of Vibrio Cholera.

II. Write notes on: (4 x 5 = 20)

1. Laboratory diagnosis of Cornebacterium diphtheria.
2. PCR and its application.
3. How can the Virus be Isolated in the Laboratory?
4. Define antigen antibody reaction with suitable example.

III. Short answers on: (5 x 2 = 10)

1. Hot Air Oven.
2. Antibiotics.
3. Classification of viruses.
4. Name two pigment producing bacteria.
5. Cold sterilization.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Describe the process of Wound Healing. Enumerate the Factors that Influence Tissue Repair. Add a note on Fracture Healing.

II. Write notes on: (4 x 5 = 20)

1. Edema
2. Gangrene
3. Tuberculosis
4. GOUT

III. Short answers on: (5 x 2 = 10)

1. Angina Pectoris.
2. Myasthenia Gravis.
3. Types of Calcification.
4. Types of Emboli.
5. Osteomalacia.

[LK 6258]

FEBRUARY 2017

Sub. Code: 6258

**BPT DEGREE EXAMINATION
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY**

Q.P. Code : 746258

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Write in detail about morphology, cultural characteristics, antigenecity, pathogenesis and laboratory diagnosis of Salmonella typhi.

II. Write notes on: (4 x 5 = 20)

1. Autoclave.
2. ELISA.
3. Laboratory diagnosis of Mycobacterium tuberculosis.
4. Universal precautions.

III. Short answers on: (5 x 2 = 10)

1. Mode of transmission for HIV.
2. Oral candidiasis.
3. Bacterial growth curve-draw and label.
4. List four DNA viruses.
5. MMR vaccine.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. a) Chemical mediators of acute inflammation.
b) Add a note on sequelae of acute inflammation.

II. Write notes on: (4 x 5 = 20)

1. Characteristic features of reversible and irreversible cell injury.
2. Myasthenia gravis.
3. Osteoarthritis.
4. Secondary Tuberculosis.

III. Short answers on: (5 x 2 = 10)

1. How tissues of the body are grouped based on their proliferative activity?
2. Complications of Rheumatic fever.
3. Differences between necrosis and apoptosis.
4. Complications of wound healing.
5. Define embolism.

[LL 6258]

AUGUST 2017

Sub. Code: 6258

**BPT DEGREE EXAMINATION
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY**

Q.P. Code : 746258

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define Hypersensitivity. Write the classification and write in detail about Type I hypersensitivity.

II. Write notes on: (4 x 5 = 20)

1. Anaerobic culture methods.
2. Prophylaxis of polio virus infection.
3. Antigenic structure of Staphylococcus Aureus.
4. Urinary tract infection.

III. Short answers on: (5 x 2 = 10)

1. Define Antigen and Antibody.
2. Name four bacteria causing Diarrhoea.
3. Mantoux test.
4. Draw and label the diagram of Hepatitis B virus.
5. Name four fungi causing Systemic mycoses.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. a) Cellular basis of atrophy.
b) Give examples for physiological and pathological atrophy including osteoporosis.

II. Write notes on: (4 x 5 = 20)

1. Bronchial Asthma.
2. Ankylosing Spondylitis.
3. Definition and types of Gangrene.
4. Thromboangitis obliterans.

III. Short answers on: (5 x 2 = 10)

1. Fate of thrombus.
2. Define shock.
3. Define infarction and name the types.
4. Osteomalacia.
5. Fate of atherosclerotic plaque.

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

[LM 6258]

FEBRUARY 2018

Sub. Code: 6258

**BPT DEGREE EXAMINATION
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY**

Q.P. Code : 746258

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Draw diagram of HIV and label its parts. Write in detail about its morphology, mode of transmission, laboratory diagnosis and prophylaxis of HIV.

II. Write notes on: (4 x 5 = 20)

1. Hot air oven.
2. Acquired immunity.
3. Prophylaxis of Tetanus.
4. Epstein - Barr virus.

III. Short answers on: (5 x 2 = 10)

1. Ideal properties for a chemical disinfectant.
2. Immunoglobulin G.
3. Uses of ELISA.
4. VDRL test.
5. List four organisms causing urinary tract infection.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. a) Wound healing by primary and secondary intention.
b) Factors influencing repair.
c) Complications of wound healing.

II. Write notes on: (4 x 5 = 20)

1. Volkmann's ischaemic contracture.
2. Definition and classification of edema.
3. Etiology and pathogenesis of Bronchiectasis.
4. Tenosynovitis.

III. Short answers on: (5 x 2 = 10)

1. Define neoplasm.
2. Causative organism and classification of Leprosy.
3. Cardinal signs of acute inflammation.
4. Name the stages of inflammation in Lobar Pneumonia.
5. Define infarction and name the types.

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

[LN 6258]

AUGUST 2018

Sub. Code: 6258

**BPT DEGREE EXAMINATION
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY**

Q.P. Code : 746258

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Write in detail about sterilization by chemical methods.

II. Write notes on: (4 x 5 = 20)

1. Type IV Hypersensitivity.
2. Laboratory diagnosis of enteric fever.
3. Laboratory diagnosis of HIV.
4. Lab diagnosis of dengue and its prevention.

III. Short answers on: (5 x 2 = 10)

1. Name four bacteria causing UTI (Urinary Tract Infection).
2. Name four causative agents of Meningitis.
3. Enumerate four bacteria causing sexually transmitted diseases.
4. Name four Anaerobic bacteria.
5. Name the organisms causing Hospital Acquired Infections.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define Inflammation. Describe in detail about the vascular changes associated with Inflammation.

II. Write notes on: (4 x 5 = 20)

1. Fat Embolism.
2. Osteomyelitis.
3. Vitamin D deficiency.
4. Myasthenia gravis.

III. Short answers on: (5 x 2 = 10)

1. Thrombosis.
2. Typhoid.
3. Volkmann's ischemia.
4. Red infarct.
5. Gout.

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

[LO 6258]

FEBRUARY 2019

Sub. Code: 6258

**BPT DEGREE EXAMINATION
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY**

Q.P. Code : 746258

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define Antigen Antibody reactions. Enumerate the different types of Antigen antibody reactions.

II. Write notes on: (4 x 5 = 20)

1. Lab diagnosis of Tetanus.
2. Lab diagnosis of Mycobacterium Leprae.
3. Diseases caused by Different species of Pseudomonas.
4. Lab diagnosis of Corynebacterium diphtheria.

III. Short answers on: (5 x 2 = 10)

1. Cultivation of viruses.
2. Infections caused by Herpes Zoster.
3. Name two opportunistic infections in HIV.
4. Meningitis causing bacteria.
5. Classification of viruses.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Discuss in detail about the types of Shock. Stages of shock and pathogenesis of septic shock.

II. Write notes on: (4 x 5 = 20)

1. Lobar Pneumonia.
2. Rheumatic heart disease.
3. Foot protection in leprosy.
4. TB Spine.

III. Short answers on: (5 x 2 = 10)

1. Four common sites of atherosclerosis.
2. Granuloma.
3. Pannus.
4. Define Embolism.
5. Wet gangrene.

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

[LP 6258]

AUGUST 2019

Sub. Code: 6258

**BPT DEGREE EXAMINATION
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY**

Q.P. Code : 746258

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Write in detail about Type IV Hypersensitivity.

II. Write notes on: (4 x 5 = 20)

1. Sterilization by Autoclaves.
2. Lab diagnosis of Viral disease.
3. Lab diagnosis of Cholera.
4. Lab diagnosis of Tuberculosis.

III. Short answers on: (5 x 2 = 10)

1. Hepatitis B Serological markers.
2. Name the virus and the vaccines of Measles.
3. Classify/enumerate Herpes viruses.
4. Name the types of Hepatitis viruses.
5. Name the organisms/bacteria causing Respiratory tract infection.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define Tumor. Explain in detail about the different types of tumors, its pathogenesis and treatment.

II. Write notes on: (4 x 5 = 20)

1. ARDS.
2. Write a note on Healing process.
3. Tuberculosis.
4. Define Apoptosis and explain the mechanism.

III. Short answers on: (5 x 2 = 10)

1. Emphysema.
2. Iron deficiency Anaemia.
3. Haematuria.
4. Types of leprosy.
5. Name four auto Immune diseases.

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

[LQ 6258]

FEBRUARY 2020

Sub. Code: 6258

**BPT DEGREE EXAMINATION
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY**

Q.P. Code : 746258

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define Hypersensitivity. Write about Type I Hypersensitivity in detail.

II. Write notes on: (4 x 5 = 20)

1. Moist heat sterilization.
2. Acquired immunity.
3. Measles virus.
4. Polio virus.

III. Short answers on: (5 x 2 = 10)

1. Oral Thrush.
2. Subclinical infection.
3. DPT Vaccine.
4. Give two examples for Type II Hypersensitivity.
5. VDRL Test.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define Necrosis. Mention the types. Explain the causes and pathology of each type of Necrosis.

II. Write notes on: (4 x 5 = 20)

1. Fracture Healing.
2. Characteristics of malignant tumours.
3. Rheumatoid arthritis.
4. Bronchiectasis.

III. Short answers on: (5 x 2 = 10)

1. Pathophysiology of edema.
2. Complications of wound healing.
3. Examples for physiological and pathological atrophy.
4. Thromboangitis obliterans.
5. Clinical features of Parkinsonism.

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

[LR 1220]

**DECEMBER 2020
(AUGUST 2020 EXAM SESSION)**

Sub. Code: 6258

**BPT DEGREE EXAMINATION
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY (SEC A& SEC B)
Q.P. Code : 746258**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Enumerate the causative agent of Viral hepatitis. Discuss in detail the laboratory diagnosis of hepatitis B.

II. Write notes on: (4 x 5 = 20)

1. Robert Koch's postulates.
2. Autoclave.
3. Precipitation reaction.
4. Widal test.

III. Short answers on: (5 x 2 = 10)

1. BCG.
2. Pili.
3. Draw the diagram and label the HIV virus.
4. Define sterilization.
5. Oral thrush.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Thrombosis – causes, pathophysiology and fate of the thrombus.

II. Write notes on: (4 x 5 = 20)

1. Osteoarthritis.
2. Muscular dystrophies.
3. Complications of wound healing.
4. Bronchial asthma.

III. Short answers on: (5 x 2 = 10)

1. Consequences of atherosclerotic disease.
2. Stroke.
3. Differences between benign and malignant tumours.
4. Rheumatoid arthritis.
5. Abscess.

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

[BPT 0921]

**SEPTEMBER 2021
(FEBRUARY 2021 EXAM SESSION)**

Sub. Code: 6258

**BPT DEGREE EXAMINATION
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY (SEC A & SEC B)
*Q.P. Code : 746258***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Discuss the physical methods of Sterilization. It's mode of action and application with suitable example.

II. Write notes on: (4 x 5 = 20)

1. Write a brief account on use of high temperature Sterilization.
2. Explain the preparation of culture medium.
3. Contributions of Robert Koch.
4. Cell line culture.

III. Short answers on: (5 x 2 = 10)

1. Differential medium.
2. Bacteriological filter.
3. Tyndalization.
4. Shapes of bacteria.
5. Louis Pasteur.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define Shock. What are the types of Shock. Discuss the etiopathogenesis and morphology of Septic Shock.

II. Write notes on: (4 x 5 = 20)

1. Osteomyelitis.
2. Metastasis.
3. Primary Pulmonary Tuberculosis.
4. Gout.

III. Short answers on: (5 x 2 = 10)

1. Scurvy.
2. Differences between Acute and Chronic inflammation.
3. Coagulation Necrosis.
4. Name 4 Bone forming Tumours.
5. Chemical Carcinogens.

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

[BPT 0122]

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

Sub. Code: 6258

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY (SEC A & SEC B)
Q.P. Code : 746258**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Describe in detail the morphology, pathogenesis and laboratory diagnosis of Human Immuno deficiency Virus.

II. Write notes on: (4 x 5 = 20)

1. Write a short notes on bacterial culture media.
2. Comments on working principle and uses of laminar air flow chamber.
3. Hospital Acquired Infection.
4. Describe the pathogenicity of Vibrio Cholerae.

III. Short answers on: (5 x 2 = 10)

1. Oral thrush.
2. Montoux test.
3. Crystallization of virus.
4. Epitope.
5. Selective media.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define Necrosis. Discuss the different types of Necrosis with suitable examples.

II. Write notes on: (4 x 5 = 20)

1. Osteoarthritis.
2. Fracture Healing.
3. Bronchiectasis.
4. Type I Hypersensitivity.

III. Short answers on: (5 x 2 = 10)

1. Metaplasia.
2. Name four Granulomatous diseases.
3. Pseudogout.
4. Rickets.
5. Name four cartilage forming tumours.

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

[BPT 0622]

JUNE 2022

Sub. Code: 6258

(FEBRUARY 2022 EXAM SESSION)

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE

SECOND YEAR

PAPER V – MICROBIOLOGY AND PATHOLOGY (SEC A & SEC B)

Q.P. Code : 746258

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

(MICROBIOLOGY)

I. Elaborate on:

(1 x 20 = 20)

1. Explain pathogenicity, diagnosis and treatment of Enteric fever.

II. Write notes on:

(4 x 5 = 20)

1. Types of Immunoglobulin.
2. Cultivation of Viruses.
3. Diagnosis and treatment of Klebsiella.
4. Nosocomial infections.

III. Short answers on:

(5 x 2 = 10)

1. Agglutination.
2. Gram negative bacteria.
3. Bacterial spore.
4. Anti bacterial antibiotics.
5. Types of Vaccines.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on:

(1 x 20 = 20)

1. Mention the cardinal signs of inflammation. Write about the causes of inflammation and write the vascular changes in Acute inflammation.

II. Write notes on:

(4 x 5 = 20)

1. Types of necrosis with example.
2. Leprosy.
3. Thrombus – Pathogenesis.
4. Gout.

III. Short answers on:

(5 x 2 = 10)

1. Dystrophic calcification.
2. Bronchopneumonia stages.
3. Angina Pectoris.
4. Neoplasia – definition, types.
5. Parkinsonism – pathology, clinical features.

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

[BPT 1022]

**OCTOBER 2022
(AUGUST 2022 EXAM SESSION)**

Sub. Code: 6258

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
SECOND YEAR
(Candidates admitted upto the academic year 2016-2017)
PAPER V – MICROBIOLOGY/PATHOLOGY (SEC A & SEC B)
Q.P. Code : 746258**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define antigen and antigen antibody reaction. Enumerate the different types of antigen antibody reaction with suitable examples.

II. Write notes on: (4 x 5 = 20)

1. Acquired immunity.
2. Diseases caused by Klebsiella to human being.
3. Laboratory diagnosis of Anthrax.
4. Atypical Mycobacterium.

III. Short answers on: (5 x 2 = 10)

1. Louis Pasteur.
2. Differentiate gram positive and gram Negative Bacteria.
3. Immunogens.
4. Name the different antigen of salmonella.
5. Nagler reaction.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Mention the cardinal signs of inflammation. Write about the causes of inflammation and write the vascular changes in Acute inflammation.

II. Write notes on: (4 x 5 = 20)

1. Types of necrosis with example.
2. Leprosy.
3. Thrombus – Pathogenesis.
4. Gout.

III. Short answers on: (5 x 2 = 10)

1. Dystrophic calcification.
2. Bronchopneumonia stages.
3. Angina Pectoris.
4. Neoplasia – definition, types.
5. Parkinsonism – pathology, clinical features.

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

[BPT 0423]

**APRIL 2023
(FEBRUARY 2023 EXAM SESSION)**

Sub. Code: 6258

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
SECOND YEAR
(Candidates admitted upto the academic year 2016-2017)
PAPER V – MICROBIOLOGY / PATHOLOGY (SEC A & SEC B)
Q.P. Code: 746258**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Explain pathogenicity, diagnosis and treatment of Herpes simplex viruses.

II. Write notes on: (4 x 5 = 20)

1. Bacterial flagella.
2. Auto immune diseases.
3. Diagnosis of viral infections.
4. Pathogenesis and diagnosis of Polio.

III. Short answers on: (5 x 2 = 10)

1. Rice water stool.
2. Pus.
3. Bacterial capsule.
4. Define bacteremia and septicemia.
5. Flocculation test.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define Rheumatoid arthritis, Describe causes, Pathogenesis and features of Rheumatoid arthritis.

II. Write notes on: (4 x 5 = 20)

1. Write note on Edema.
2. Apoptosis and explain mechanism.
3. Tuberculosis.
4. Myasthenia Gravis.

III. Short answers on: (5 x 2 = 10)

1. Parkinsonism.
2. Shock and Types.
3. Lobar Pneumonia.
4. Caseous necrosis.
5. Paradoxical embolus.

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

[BPT 1123]

**NOVEMBER 2023
(AUGUST 2023 EXAM SESSION)**

Sub. Code: 6258

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
SECOND YEAR
(Candidates admitted upto the academic year 2016-2017)
PAPER V – MICROBIOLOGY / PATHOLOGY (SEC A & SEC B)**

Q.P. Code: 746258

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Explain pathogenicity, diagnosis and treatment of Viral STDs.

II. Write notes on: (4 x 5 = 20)

1. Gaseous methods of sterilization.
2. Types IV hypersensitivity reactions.
3. Pathogenicity and diagnosis of anaerobic infections.
4. Explain the Pathogenicity of infections.

III. Short answers on: (5 x 2 = 10)

1. Neutralization.
2. Catalase test.
3. BCG.
4. Atopy.
5. UTI Pathogens.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define Pneumonia, types of Pneumonia. Describe in detail about the Pathogenesis, Stages and complications of Pneumonia.

II. Write notes on: (4 x 5 = 20)

1. Difference between benign and malignant Tumors.
2. Gangrene- Types of Gangrene.
3. Factors influencing wound healing.
4. Gout.

III. Short answers on: (5 x 2 = 10)

1. Ankylosing Spondylitis.
2. Asthma- Causes.
3. Types of Leprosy.
4. Thrombosis.
5. Write infarction and types.
