

BPT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2017-2018 onwards)
SECOND YEAR
PAPER V – MICROBIOLOGY AND PATHOLOGY

Q.P. Code : 746280

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 15 = 15)

1. Write about the morphology, Pathogenesis and lab diagnosis of *Corynebacterium diphtheria*.

II. Write notes on: (5 x 5 = 25)

1. Write about Gram staining.
2. Write a note on Nosocomial Infections.
3. Describe Urinary tract infection and causative organisms involved.
4. Pathogenesis of Pulmonary Tuberculosis.
5. Lab diagnosis of *Vibrio cholera*.

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

1. What is a cold sterilization? Give example.
2. Mention two autoimmune diseases.
3. Name two transport media for *Vibrio cholera*.
4. What is window period in HIV infection?
5. Name the various disinfectants used in asepsis.

SECTION – B
(PATHOLOGY)

I. Elaborate on: (1 x 15 = 15)

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

II. Write notes on: (5 x 5 = 25)

1. Complications of wound healing.
2. Bronchiectasis.
3. Differences between benign and malignant tumours.
4. Muscular dystrophies.
5. Necrosis – mechanisms and types.

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

1. Osteoarthritis.
2. Embolism.
3. Chemical mediators of inflammation.
4. Abscess.
5. Clinical features of Parkinsonism.

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SECTION – A
(MICROBIOLOGY)

I. Elaborate on: (1 x 15 = 15)

1. Write about the Ultrastructure of bacteria in detail with a neat labelled sketch.

II. Write notes on: (5 x 5 = 25)

1. Write a note on Dry heat sterilization.
2. Explain Acid fast staining technique.
3. Describe the structure of bacterial endospore.
4. Pathogenesis of Enteric fever.
5. Write a note on Herpes virus infection.

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

1. List four bacteria causing Diarrhoea.
2. WIDAL Test.
3. Write the Koch's postulates.
4. Define Iatrogenic infection with examples.
5. Give examples for the reaction of Type III hypersensitivity.

SECTION – B
(PATHOLOGY)

I. Elaborate on: (1 x 15 = 15)

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

II. Write notes on: (5 x 5 = 25)

1. Rheumatoid arthritis.
2. Bronchial asthma.
3. Features of malignant tumours.
4. Atrophy.
5. Cerebrovascular accidents.

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

1. Osteomalacia.
2. Virchow's triad.
3. Deep vein thrombosis.
4. Complications of Rheumatic heart fever.
5. Differences between necrosis and apoptosis.

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

[LR 1220]

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

Sub. Code: 6280

**BPT DEGREE EXAMINATION
SECOND YEAR
(New regulations for the candidates admitted from 2017-2018 onwards)
PAPER V – MICROBIOLOGY AND PATHOLOGY
Q.P. Code : 746280**

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 15 = 15)

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

II. Write notes on: (5 x 5 = 25)

1. Dry Heat Sterilization.
2. Tetanus.
3. Flagella.
4. Urinary tract infection.
5. Anaphylaxis.

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

1. Write the Koch's postulates.
2. Mantoux test.
3. Name two organisms causing meningitis.
4. Polio vaccine.
5. Disinfectant.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 15 = 15)

1. Pneumonia - types, pathogenesis, stages and complications.

II. Write notes on: (5 x 5 = 25)

1. Myocardial Infarction – pathogenesis, features and complications.
2. Calcification.
3. Embolism.
4. Chronic inflammation – causes and types.
5. Necrosis – mechanisms and types.

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

1. Ankylosing spondylitis.
2. Septic shock.
3. Metastasis.
4. Two examples of autoimmune diseases with pathogenesis.
5. Atelactasis.

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

[BPT 0921]

SEPTEMBER 2021
(FEBRUARY 2021 EXAM SESSION)

Sub. Code: 6280

BPT DEGREE EXAMINATION
SECOND YEAR – (Regulations for the candidates admitted from 2017-2018 onwards)
PAPER V – MICROBIOLOGY AND PATHOLOGY
Q.P. Code : 746280

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 15 = 15)

1. Enumerate the etiology, pathogenesis and Lab diagnosis of anaerobic wound infection.

II. Write notes on: (5 x 5 = 25)

1. Meningitis.
2. Nagler reaction.
3. Herpes simplex virus.
4. ASO test.
5. Normal flora.

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

1. Enterotoxin.
2. Difference between plasma and serum.
3. Adjuvant.
4. Anaerobic medium.
5. Name two infections transmitted by blood and body fluid.

SECTION – B
(PATHOLOGY)

I. Elaborate on: (1 x 15 = 15)

1. Define Inflammation. Discuss the cellular events of inflammation.

II. Write notes on: (5 x 5 = 25)

1. Pagets disease of bone.
2. Gangrene.
3. Rheumatic Heart Disease.
4. Emphysema.
5. Chemical carcinogenesis.

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

1. Granulation tissue.
2. Complications of fracture healing.
3. Infarct.
4. Hypertrophy.
5. Osteogenic sarcoma.

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

[BPT 0122]

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

Sub. Code: 6280

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
SECOND YEAR- (Regulation from 2017-2018 onwards)
PAPER V – MICROBIOLOGY AND PATHOLOGY
Q.P. Code : 746280**

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 15 = 15)

1. Define pneumonia, write in detail about its etiology, pathogenesis and Lab diagnosis.

II. Write notes on: (5 x 5 = 25)

1. Structure of antibody.
2. Types of leprosy.
3. Measels.
4. Auto immunity.
5. Difference between Active immunity and passive immunity.

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

1. Cholera red reaction.
2. Hepatitis B Vaccination.
3. Autoclave holding time and temperature.
4. Application of Grams stain.
5. Herd immunity.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 15 = 15)

1. Describe the stages of wound healing by primary intention. Enumerate the factors that influence wound healing. Write a note on fracture healing.

II. Write notes on: (5 x 5 = 25)

1. Types of embolism.
2. Myasthenia gravis.
3. Differences between benign and malignant tumours.
4. Osteomyelitis.
5. Cerebrovascular accidents.

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

1. Types of pathological calcification with mechanism.
2. Complications of myocardial infarction.
3. Rickets.
4. Parkinsonism.
5. Tuberculosis of spine.

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

[BPT 0622]

**JUNE 2022
(FEBRUARY 2022 EXAM SESSION)**

Sub. Code: 6280

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
SECOND YEAR- (Regulation from 2017-2018 onwards)
PAPER V – MICROBIOLOGY AND PATHOLOGY
Q.P. Code : 746280**

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 15 = 15)

1. Define Typhoid, write in detail about its etiology, pathogenesis and Lab diagnosis.

II. Write notes on: (5 x 5 = 25)

1. ELISA.
2. Autoclave.
3. Fever.
4. Acid fast staining.
5. Klebsiella.

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

1. Middle brooks medium.
2. Name two bacteria showing oxidase positive.
3. Interferon.
4. Pseudomembranous colitis.
5. Hapten.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 15 = 15)

1. Define Neoplasia. Discuss the differences between benign and malignant Tumours. Add a note on different routes of metastasis.

II. Write notes on: (5 x 5 = 25)

1. Osteoporosis.
2. Myasthenia Gravis.
3. Stages of Lobar Pneumonia.
4. Rheumatic Heart Disease.
5. Discuss wound healing by primary intention.

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

1. Types of Embolism.
2. Name 4 muscular dystrophies.
3. Fate of thrombus.
4. Cardinal signs of inflammation.
5. Name 4 risk factors for atherosclerosis.

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

[BPT 1022]

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

Sub. Code: 6280

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
SECOND YEAR- (Regulation from 2017-2018 onwards)
PAPER V – MICROBIOLOGY AND PATHOLOGY (Sec A & Sec B)
Q.P. Code : 746280**

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 15 = 15)

1. Explain the etiology, pathogenesis and lab diagnosis of Tetanus.

II. Write notes on: (5 x 5 = 25)

1. Disinfection.
2. Types of infections.
3. Hypersensitivity.
4. Radiation sterilization.
5. Lab diagnosis of viral infections.

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

1. Contact dermatitis.
2. Hepatitis.
3. Differential medium.
4. Antiviral drugs.
5. Treatment of wound infections.

**SECTION – B
(PATHOLOGY)**

I. Elaborate on: (1 x 15 = 15)

1. Define inflammation. Discuss the vascular events of acute inflammation. Write the sequelae of acute inflammation.

II. Write notes on: (5 x 5 = 25)

1. Shock.
2. Atherosclerotic plaque.
3. Lobar pneumonia.
4. Chemical mediators of inflammation.
5. Asthma.

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

1. Osteomalacia.
2. Fate of thrombus.
3. Classification of leprosy.
4. Define neoplasm.
5. Types of calcification.
