

[KM 910]

Sub. Code : 5211

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Third Semester

(Modified Regulations)

Paper I — PATHOLOGY AND MICROBIOLOGY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer Sections A and B on SEPARATE Answer Book.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

**SECTION A
(PATHOLOGY)**

I. Essay :

Define Emphysema. Discuss the etiology, pathogenesis, pathology and complications of Emphysema.
 $2 + 4 + 8 + 4 + 2 = 15$

II. Short notes : (5 × 5 = 25)

- (a) Common characteristics of malignant tumors.
- (b) Air embolism.
- (c) Necrosis — Definition, Types with suitable examples.
- (d) Juvenile Rheumatoid arthritis.
- (e) Lepromatous Leprosy.

**SECTION B
(MICROBIOLOGY)**

III. Essay :

Define immunity. Write in detail about the different types of immunity. (3 + 12 = 15)

IV. Short notes : (5 × 5 = 25)

- (a) Bacterial capsule.
- (b) Tetanus.
- (c) Cell wall antibiotics.
- (d) Candidiasis
- (e) Rabies.

[KM 911]

Sub. Code : 5313

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Third Semester

(New Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer Sections A and B on SEPARATE Answer Books.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

SECTION A

(PATHOLOGY)

I Essay : (1 × 15 = 15)

(1) Define thrombosis. Briefly discuss the etiology, pathogenesis and complications of thrombosis.

$$(2 + 3 + 5 + 5 = 15)$$

II. Write short notes on : (5 × 5 = 25)

- (a) Megaloblastic anemia.
(b) Emphysema.
(c) Rickets.
(d) Duchenne Muscular Dystrophy.
(e) Osteoarthritis.

SECTION B

(MICROBIOLOGY)

III. Essay: (1 × 15 = 15)

(1) Define sterilization. Classify different methods of sterilization. Write in detail about the moist heat sterilization. (2 + 3 + 10 = 15)

IV. Write short notes on : (5 × 5 = 25)

- (a) Bacterial spore.
- (b) Antibiotic sensitivity testing.
- (c) Hospital acquired infection.
- (d) AIDS.
- (e) Dermatophytes.

August-2005

[KN 910]

Sub. Code : 5211

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

**Third Semester
(Modified Regulations)**

Paper I —PATHOLOGY AND MICROBIOLOGY

Time : Three hours Maximum : 100 marks
Sec. A & B : Two hours and Sec. A & B : 80 marks
forty minutes

[C.Q. : Twenty minutes M.C.Q. : 20 marks
Answer Section A & B on separate answer book.

Answer ALL questions.

**SECTION A
(PATHOLOGY)**

Essay : (1 × 15 = 15)

(1) Define osteoarthritis.

Discuss in detail about the Etiology and pathogenesis of Rheumatoid Arthritis.

Short notes : (5 × 5 = 25)

- (a) Lepromatous Leprosy
- (b) Air Embolism
- (c) Volkman's Ischaemic contracture
- (d) Aschoff bodies
- (e) Acute pyogenic Meningitis

**SECTION B
(MICROBIOLOGY)**

III. Essay : (1 × 15 = 15)

(1) Discuss the morphology, cultural characters, pathogenesis and lab diagnosis of mycobacterium tuberculosis. (2 + 3 + 5 + 5)

IV. Short notes : (5 × 5 = 25)

- (a) Robert Koch
- (b) Acquired immunity
- (c) Antibiotic sensitivity tests
- (d) Polio vaccines
- (e) Candida albicans.

[KN 911]

Sub. Code : 5313

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Third Semester

(New Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time : Three hours Maximum : 100 marks

Sec. A & B : Two hours and Sec. A & B : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer Sections A and B on SEPARATE Answer Books.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

SECTION A

(PATHOLOGY)

I. Essay : (1 × 15 = 15)

(1) Define Inflammation. Discuss about various events in acute inflammation.

II. Write Short notes on : (5 × 5 = 25)

(a) Shock.

(b) Rheumatoid arthritis.

(c) Poliomyelitis.

(d) Bronchiectasis.

(e) Iron Deficiency Anemia.

SECTION B

(MICROBIOLOGY)

III. Essay : (1 × 15 = 15)

(1) Describe the mode of infection, pathogenesis and laboratory diagnosis of disease caused by poliovirus. Mention the prophylaxis in poliomyelitis.

(2 + 3 + 7 + 3 = 15)

IV. Write short notes on : (5 × 5 = 25)

(a) Capsule.

(b) Mycetoma.

(c) Lepromin Test.

(d) Immunoglobulin G.

(e) Laboratory diagnosis of AIDS.

[KN 945]

Sub. Code : 5811

B.O.T. DEGREE EXAMINATION.

(New Modified Regulations)

Third Semester

Paper III — PATHOLOGY AND MICROBIOLOGY

Time : One and a half hours Maximum : 50 marks

Sec. A & B : One hour and Sec. A & B : 40 marks
twenty minutes

M.C.Q. : Ten minutes M.C.Q. : 10 marks

Answer Sections A and B in SEPARATE Answer Books.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

SECTION A

(PATHOLOGY)

Essay : (1 × 10 = 10)

Define Osteomyelitis. Write in detail about the etiology, pathogenesis, morphology and diagnosis of tuberculous Osteomyelitis. (10)

I. Short notes : (2 × 5 = 10)

(a) Write briefly about the factors influencing wound repair.

(b) Write briefly about the spread of Tumors.

SECTION B

(MICROBIOLOGY)

III. Essay : (1 × 10 = 10)

Define hypersensitivity. Classify hypersensitivity. Discuss in detail Type I hypersensitivity reactions. (10)

IV. Short notes : (2 × 5 = 10)

(a) Lab Diagnosis of HIV.

(b) Dermatophytes.

[KO 911]

Sub. Code : 5313

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Third Semester

(New Modified Regulations)

Paper I — PATHOLOGY AND MICROBIOLOGY

Time : Three hours Maximum : 100 marks

**Sec A & B : Two hours and Sec. A & B : 80 marks
forty minutes**

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer Section A and B on separate answer book.

Draw suitable diagrams wherever necessary.

Answer ALL questions.

**SECTION A
(PATHOLOGY)**

I. Essay : (1 × 15 = 15)

**Classify and describe Hypersensitivity reactions
and briefly describe the pathogenesis of Rheumatoid
arthritis.**

II. Write short notes on : (5 × 5 = 25)

- (a) Osteomyelitis**
- (b) Pulmonary tuberculosis**
- (c) Viral carcinogens**
- (d) Hypovolaemic shock**
- (e) Duchenne muscular dystrophy.**

**SECTION B
(MICROBIOLOGY)**

III. Essay Question : (1 × 15 = 15)

**Explain in detail about respiratory tract
infections.**

IV. Write short notes on : (5 × 5 = 25)

- (a) Light Microscope**
 - (b) Nosocomial infection**
 - (c) Formaldehyde**
 - (d) Viral vaccines**
 - (e) Hepatitis B virus infection.**
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February-2006

[KO 945]

Sub. Code : 5811

B.O.T. DEGREE EXAMINATION.

Third Semester

(New Modified Regulations)

Paper III — PATHOLOGY AND MICROBIOLOGY

Time : One and a half hours Maximum : 50 marks

Theory : One hour and Theory : 40 marks
twenty minutes

M.C.Q. : Ten minutes M.C.Q. : 10 marks

Answer Sections A and B in **SEPARATE**
Answer Books.

Answer **ALL** questions.

Draw suitable diagrams wherever necessary.

SECTION A

(PATHOLOGY)

I. Essay : (1 × 10 = 10)

(1) Classify Pneumonias. Describe Etiology
Pathology and complications of Lobar Pneumonia.
(2 + 6 + 2 = 10)

II. Write short notes on : (2 × 5 = 10)

(a) Phagocytosis

(b) Dystrophic Calcification.

SECTION B

(MICROBIOLOGY)

III. Essay : (1 × 10 = 10)

(1) Describe the sources of infection.

IV. Write short notes on : (2 × 5 = 10)

(a) Hospital acquired infection

(b) Rabies.

[KP 911]

Sub. Code : 5313

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Third Semester

(New Modified Regulations)

Paper I — PATHOLOGY AND MICROBIOLOGY

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer Section A and B on separate answer book.

Draw suitable diagrams wherever necessary.

Answer ALL questions.

**SECTION A
(PATHOLOGY)**

I. Essay:

(1) Define and classify anaemias. Write in detail about the etiology, peripheral smear and bonemarrow appearance of iron deficiency anaemia. (15)

(2) Define Necrosis. Discuss in detail about various types of Necrosis. (10)

II. Write short notes on :

(3 × 5 = 15)

- (a) Pathologic calcification
- (b) Osteomyelitis.
- (c) Metastasis

**SECTION B
(MICROBIOLOGY)**

III. Essay :

(1) Write about the aetiology, pathogenesis, Laboratory Diagnosis and prevention of Tuberculosis.

(15)

(2) Name the viruses that affect the nervous system. Write briefly about the structure, route of entry, pathogenesis, complications and prevention of poliomyelitis. (10)

IV. Write short notes on :

(3 × 5 = 15)

- (a) Bacterial Fimbriae
- (b) Viral meningitis
- (c) Enteric fever.

[KP 1004]

Sub. Code : 6217

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Second Year

(Non-Semester Regulations)

Paper IV — MICROBIOLOGY/PATHOLOGY

Time : Three hours Maximum : 100 marks

Sec. A & B : Two hours and Sec. A & B : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer Section A & B on separate answer book.

Answer ALL questions.

SECTION A

(MICROBIOLOGY)

I. Essay :

(1) Name the viruses that affect the nervous system. Write briefly about the structure, route of entry, pathogenesis, complications and prevention of poliomyelitis. (15)

(2) Define and classify acquired community and write in detail about active immunity. (10)

II. Short notes : (3 × 5 = 15)

- (a) Osteomyelitis
- (b) Rabies prophylaxis
- (c) Human Immuno Deficiency Virus.

SECTION B

(PATHOLOGY)

III. Essay :

(1) Discuss the types of wound healing and complications of wound healing. Add a note on fracture healing. (5 + 5 + 5 = 15)

(2) Define Neoplasm. Discuss in detail the differences between benign and malignant Neoplasm. (10)

IV. Write short notes on : (3 × 5 = 15)

- (a) Vit. A Deficiency
- (b) Bronchial Asthma
- (c) Rheumatoid Arthritis.

[KQ 1004]

Sub. Code : 6217

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Second Year

(Revised Non-Semester and Third Semester New
Modified Regulations)

MICROBIOLOGY/PATHOLOGY

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

Theory : Two hours and forty minutes	Theory : 80 marks
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M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer Section A and B on SEPARATE answer book.

Answer ALL questions.

SECTION A

(MICROBIOLOGY)

I. Essay :

(1) What are the different methods of sterilization in microbiology? Write in detail about the physical methods of sterilization. (15)

(2) Write about morphology, pathogenesis and lab diagnosis of M. Tuberculosis. (10)

II. Short notes :

(3 × 5 = 15)

- Flagella
- Lab diagnosis of enteric fever
- Polio virus.

SECTION B

(PATHOLOGY)

III. Essay :

- (1) Define thrombosis and describe the types of thrombosis and discuss the aetio-pathogenesis of venous thrombosis. (5 + 5 + 5 = 15)

- (2) Define and classify pneumonia. What is lobar pneumonia? Write etiology and pathological changes of lobar pneumonia. (2 + 2 + 6 = 10)

IV. Short notes :

(3 × 5 = 15)

- (a) Fat embolism
- (b) Iron deficiency anaemia
- (c) Emphysema

[**KR 1004**]**Sub. Code : 6217**

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Second Year

(Revised Non-Semester and Third Semester Modified/
New Modified Regulations)

MICROBIOLOGY/PATHOLOGY

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

Theory : Two hours and
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer Section A and B on SEPARATE answer book.

Answer ALL questions.

SECTION A

(MICROBIOLOGY)

I. Essay:

(1) Describe the various Routes of Entry of Infections. Write in detail about spread, Laboratory Diagnosis, and prophylaxis of Tuberculosis. (15)

(2) Classify sterilization : Write in detail about Auto Clave. (10)

II. Short notes :

(3 × 5 = 15)

(a) Urinary Tract Infections.

(b) Hospital Acquired Infections.

(c) Polio Vaccine.

SECTION B

(PATHOLOGY)

III. Essay :

(1) Define inflammation. Write causes signs and Types of inflammation. Discuss briefly on vascular events in acute inflammation. (2 + 6 + 7 = 15)

(2) Define Neoplasm. Classify and describe the differences between benign and malignant tumours.
(2 + 2 + 6 = 10)

IV. Write short notes on :

(3 × 5 = 15)

(a) **Bronchiectasis.**

(b) Volkman's Ischaemia.

(c) Differences between Benign and Malignant tumor.

FEBRUARY 2008

[KS 1004 (X)]

Sub. Code : 6217

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Second Year

**(Revised Non-Semester and Third Semester
Modified/New Modified Regulations)**

MICROBIOLOGY/PATHOLOGY

Q.P. Code : 746217

Time : Three hours

Maximum : 100 marks

**Sec. A & B : Two hours and
forty minutes**

Sec. A & B : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer Section A and B on **SEPARATE answer book.**

Answer ALL questions.

SECTION A

(MICROBIOLOGY)

I. Essay :

- 1. Classify and explain in detail various types of Hypersensitivity Reactions. (15)**
- 2. Write about Pathogenesis, Laboratory Diagnosis and Prophylaxis of Polio Virus. (10)**

II. Short notes :

(3 × 5 = 15)

- 1. VDRL**
- 2. AIDS**
- 3. Capsule.**

SECTION B

(PATHOLOGY)

III. Essay :

- 1. Define Neoplasm. Describe the different pathways of metastasis. Discuss briefly about metastatic cascade. (2 + 7 + 6 = 15)**
- 2. What is shock? What are the mechanisms underlying different types of shock? Discuss briefly the pathogenesis of septic shock. (2 + 2 + 6 = 10)**

IV. Write short notes on :

(3 × 5 = 15)

- 1. Emphysema.**
- 2. Necrosis.**
- 3. TB osteomyelitis.**

AUGUST 2008

[KT 1004 (X)]

Sub. Code : 6217

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Second Year

**(Revised Non-Semester and Third Semester
Modified/New Modified Regulations)**

MICROBIOLOGY/PATHOLOGY

Q.P. Code : 746217

Time : Three hours

Maximum : 100 marks

Answer Section A and B on SEPARATE answer book.

Answer ALL questions.

**SECTION A
(MICRO BIOLOGY)**

I. Essay :

**1. Discuss in detail about the virology, pathogenesis,
laboratory diagnosis and prevention of rabies.**

(3 + 4 + 4 + 4 = 15)

**2. Name different types of Immunity. Give a full
account of acquired immunity.**

(3 + 7 = 10)

AUGUST 2008

II. Short notes : (3 × 5 = 15)

1. Laboratory Diagnosis of Mycobacterium tuberculosis.
2. Chemical disinfectants.
3. Candida Albicans.

III. Short answer questions. (5 × 2 = 10)

1. Write two functions of capsule.
2. Mention four common types of Hospital Infection.
3. Name the Immunoglobulin classes.
4. Enumerate different types of Hypersensitivity reactions.
5. Name four superficial fungal Infections.

SECTION B

(PATHOLOGY)

IV. Essay :

1. Define Inflammation. Write in detail about chemical mediators of inflammation. (1 × 15 = 15)
2. Classify chronic obstructive pulmonary diseases. Write in detail about Emphysema. (10)

V. Write short notes on : (3 × 5 = 15)

1. Rheumatoid Arthritis.
2. Typhoid.
3. Air Embolism.

VI. Write short answers : (5 × 2 = 10)

1. Poliomyelitis.
 2. Types of urinary stones.
 3. Common sites of tuberculous osteomyelitis.
 4. Local factors influencing wound healing.
 5. Two types of metaplasia.
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