

[KD 910]

Sub. Code : 5211

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Third Semester

(Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time : Three hours

Maximum : 100 marks

Answer Sections A and B on separate Answer Books.

SECTION A

(MICROBIOLOGY)

1. Answer any ONE question : (1 × 20 = 20)

(a) Write an essay on innate immunity.

(b) Enumerate the organisms producing sexually transmitted infections and write about syphilis and its diagnosis.

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Gram's staining.

(b) Bacterial spore.

(c) Autoclave.

(d) Types of infections.

(e) Artificial passive immunity.

(f) Typhoid.

(g) Dermatophytosis.

(h) Polio virus.

SECTION B

(PATHOLOGY)

3. Answer any ONE of the following : (20)

(a) Define Neoplasia. Enumerate the differences between benign and malignant tumours.

(b) Define Necrosis. Discuss the various types of necrosis.

4. Write short notes on any SIX of the following : (6 × 5 = 30)

(a) Rheumatoid Arthritis.

(b) Duchenne muscular dystrophy.

(c) Myocardial infarction.

(d) Fat embolism.

(e) Primary healing.

(f) Typhoid fever.

(g) Emphysema.

(h) Pathologic calcification.

April-2001

[KD 911]

Sub. Code : 5313

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Third Semester

(New Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time : Three hours Maximum : 100 marks

Answer Sections A and B on separate Answer Books.

SECTION A

(MICROBIOLOGY)

1. Answer any ONE question : (1 × 20 = 20)

(a) Write an essay about physical methods of sterilization.

Or

(b) Enumerate the organisms associated with wound infections and write about Gas gangrene and its treatment.

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Gram's staining.

(b) Bacterial capsule.

(c) Properties of an ideal disinfectant.

(d) Rideal Walker's test.

(e) Atopy.

(f) Leprosy.

(g) Histoplasmosis.

(h) Hepatitis-B-Virus.

SECTION B

(PATHOLOGY)

3. Answer any ONE of the following : (20)

(a) Define Embolism. Discuss pulmonary embolism.

Or

(b) Define healing. Discuss healing by second intention (secondary healing).

4. Write short notes on any SIX of the following : (6 × 5 = 30)

(a) Gangrene.

(b) Spread of tumours.

(c) Fate of thrombus.

(d) Rheumatic heart disease.

(e) Phagocytosis.

(f) Primary complex.

(g) Meningitis.

(h) Poliomyelitis.

November-2001

[KE 910]

Sub. Code : 5211

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Third Semester

(Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time : Three hours Maximum : 100 marks

Answer Sections A and B on separate Answer Books.

SECTION A

(MICROBIOLOGY)

1. Answer any ONE question : (20)

(a) What is infection? Explain the sources, spread and prevention of infection.

(b) Name the causative agent of poliomyelitis. Explain the pathogenesis, laboratory diagnosis and prevention of poliomyelitis.

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Name the common microorganisms causing meningitis. Write in brief about the laboratory diagnosis of meningitis.

(b) Active immunity

(c) Prevention and treatment of tuberculosis

(d) Serum sickness

(e) Pathogenesis and prevention of tetanus

(f) Name the common antibacterial antibiotics in medical practice.

Add a note on Kirby bauer method to find out antibiotic susceptibility of microorganisms.

(g) Gases used in sterilisation.

(h) Louis Pasteur.

SECTION B

(PATHOLOGY)

3. Answer any ONE of the following : (1 × 20 = 20)

(a) Define neoplasia and discuss about the spread of tumours.

(b) Discuss about the pathogenesis and pathology of Rheumatic heart disease.

4. Write short notes on any SIX of the following : (6 × 5 = 30)

(a) Healing of fracture of bones.

(b) Primary pulmonary tuberculosis.

(c) Fat embolism.

(d) Classification of Anaemias.

(e) Bronchiectasis.

(f) Osteoarthritis.

(g) Muscular Dystrophies.

(h) Tuberculous meningitis.

November-2001

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**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Third Semester

(New Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time : Three hours

Maximum : 100 marks

Answer Sections A and B on separate Answer Books.

SECTION A

MICROBIOLOGY

1. Answer any ONE questions : (1 × 20 = 20)

(a) What is nosocomial infection? Explain the various sources, spread and prevention of nosocomial infection.

(b) Name the causative agent of tuberculosis. Explain the pathogenesis, laboratory diagnosis and prevention of tuberculosis.

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Cell wall of bacteria

(b) Hot air oven

(c) Passive immunity

(d) Anaphylaxis

(e) Hepatitis B virus

(f) Prevention of Rabies

(g) Name the common organisms which causes sexually transmitted diseases. Add a note on laboratory diagnosis of syphilis.

(h) Candidiasis.

(d) Tuberculoid leprosy

(e) Bronchopneumonia

(f) Volkmann's Ischemic contracture

(g) Fat embolism

(h) Encephalitis.

SECTION B

(PATHOLOGY)

3. Answer any ONE of the following : (1 × 20 = 20)

(a) Describe various methods of spread of tumours.

(b) Describe the pathology of rheumatoid arthritis.

4. Write short notes on any SIX of the following:
(6 × 5 = 30)

(a) Caseation Necrosis

(b) Types of Emphysema

(c) Primary complex

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**BACHELOR OF PHYSIOTHERAPY DEGREE
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Third Semester

(Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time : Three hours

Maximum : 100 marks

Answer Sections A and B on separate Answer Books.

SECTION A

(MICROBIOLOGY)

1. Answer any ONE question : $(1 \times 20 = 20)$
 - (a) Define the term sterilisation and disinfection. Discuss in detail about the sterilisation by 'steam under pressure' method and mention the sterilisation controls employed.
 - (b) What is immunity. Classify immunity and describe the mechanisms of innate immunity.
2. Write short notes on any SIX : $(6 \times 5 = 30)$
 - (a) Robert Koch
 - (b) Bacterial spores
 - (c) Gram staining

- (d) Carrier
- (e) Antibiotic sensitivity test
- (f) Anaphylaxis
- (g) Candida albicans
- (h) Sabin vaccine

SECTION B

(PATHOLOGY)

3. Answer any ONE of the following: (20)

(a) Describe the various stages in the pathology of labour pneumonia.

(b) Describe the vascular changes in acute inflammation and the cells that play a role in inflammation.

4. Write short notes on any SIX of the following :

(6 × 5 = 30)

- (a) Fatty change liver
- (b) Fate of thrombus
- (c) Scurvy

- (d) Pyogenic osteomyelitis
- (e) Lipoma
- (f) Etiology of myasthenia gravis
- (g) Factors influencing healing of wounds
- (h) Granuloma.

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BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Third Semester

(New Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Answer Section A and B on separate Answer Books.

Three hours

Maximum : 100 marks

SECTION A
(MICROBIOLOGY)

Answer any ONE of them: (1 × 20 = 20)

(a) Describe in detail the morphology of a bacterial cell.

(b) Define hypersensitivity. Classify hypersensitivity. Describe in detail type I hypersensitivity.

Write short notes on any SIX : (6 × 5 = 30)

- (a) Louis pasteur
- (b) Dark ground microscope
- (c) Cross infection
- (d) Auto immunity
- (e) Gas gangrene
- (f) Mycotoxins
- (g) Polio vaccines
- (h) Tuberculoid leprosy.

SECTION B

(PATHOLOGY)

3. Answer any ONE of the following: (20)

(a) Mention chronic granulomas and describe any one of them in detail.

(b) Write in detail the classification of anaemias and write the investigations to be done for Iron deficiency anaemia.

4. Write short notes on any SIX of the following :

(6 × 5 = 30)

- (a) Congenital lesions of heart
- (b) Types of Exudates
- (c) Tumours of bone
- (d) Carcinogens
- (e) Primary complex
- (f) Myopathies
- (g) Pneumonia
- (h) Rickets.

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BACHELOR OF PHYSIOTHERAPY
DEGREE EXAMINATION.

Third Semester

(Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time : Three hours

Maximum : 100 marks

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

SECTION A

(MICROBIOLOGY)

1. Answer any ONE : (1 × 20 = 20)

(a) What is immunity, classify immunity and describe the mechanism of innate immunity.

(b) Define the term disinfection and antiseptic classify chemical sterilization agents with examples.

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Bacterial capsule

(b) Ziehl Neelsen strains

- (c) Meningitis
- (d) Tyndallization
- (e) Anti rabies vaccines
- (f) Sexuality Transmitted Diseases
- (g) Labelled diagram of bacterial cell.
- (h) Vaccines.

- (c) Bronchiectasis
- (d) Septic arthritis
- (e) Renal stones
- (f) Scleroderma
- (g) Aneurysm
- (h) Lobar pneumonia.

SECTION B

(PATHOLOGY)

3. Answer any ONE of the following : (20)

(a) Define SHOCK. Describe in detail the aetiopathogenesis and pathology of Irreversible shock.

Or

(b) Describe in detail the aetropathogenesis and pathology of Leprosy.

4. Write short notes on any SIX of the following :
(6 × 5 = 30)

- (a) Granulation tissue
- (b) Types of necrosis

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**BACHELOR OF PHYSIOTHERAPY
DEGREE EXAMINATION.**

Third Semester

(New Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time : Three hours

Maximum : 100 marks

Answer Section A and B on SEPARATE Answer Books.

SECTION A

(MICROBIOLOGY)

1. Answer any ONE of them : (1 × 20 = 20)

(a) Define and classify immunity. Discuss in detail about Acquired immunity.

(b) Describe the treatment and prevention of Rabies.

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Robert Koch

(b) Bacterial flagella

(c) Sources of infection in Man

- (d) Anaphylaxis.
- (e) Viral vaccines
- (f) Hospital acquired infections.
- (g) Anaerobic infections
- (h) Pathogenic yeasts.

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- (d) CSF findings in Meningitis
- (e) Volkman's Ischaemia
- (f) Atherosclerosis
- (g) Callus
- (h) Actinomycosis.

SECTION B

(PATHOLOGY)

3. Answer any ONE of the following : (20)

(a) Define ANAEMIA. Write in detail about the aetiopathogenesis and investigations of Iron deficiency Anaemia.

Or

(b) Mention the differences between Benign and Malignant Tumours. Discuss the spread of tumours.

4. Write short notes on any SIX of the following :
(6 × 5 = 30)

- (a) Types of Necrosis
- (b) Rickets
- (c) Lobar pneumonia

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**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

MCQ : Twenty minutes

MCQ : 20 marks

**MCQ must be answered SEPARATELY on the answer
sheet provided as per the instructions on the first page.**

Answer Section A and B on SEPARATE answer book.

Answer ALL questions.

**SECTION A
(PATHOLOGY)**

Essay : (15)

- 1. Describe in detail fracture healing.**

- 2. Write short notes on : (5 × 5 = 25)**

- (1) Phagocytosis**
- (2) Aneurysms**
- (3) Osteosarcoma**
- (4) Gas gangrene**
- (5) Primary TB.**

**SECTION B
(MICROBIOLOGY)**

- 3. Essay : (1 × 15 = 15)**

Define sterilisation. (2)

Classify different methods of sterilisation. (3)

**Discuss in detail, heat as a method of sterilisation.
(10)**

- 4. Short notes : (5 × 5 = 25)**

- (1) Anaphylaxis**
- (2) Flagella**
- (3) Robert Koch**
- (4) Urinary tract infection**
- (5) Opportunistic fungi.**

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**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

Sec. C. : Twenty minutes

Sec. C : 20 marks

Answer Section A and B on SEPARATE answer book.

Answer ALL questions.

SECTION A

(PATHOLOGY)

I. Essay :

Define Neoplasia . Discuss about spread of tumours. Mention the differences between Benign and Malignant Tumours. (3 + 7 + 5 = 15)

II. Write short answers for the following : (5 × 5 = 25)

- (a) Iron Deficiency Anaemia.
- (b) Volkman's Ischemia.
- (c) Rheumatic Heart Disease.
- (d) Leprosy.
- (e) Poliomyelitis.

SECTION B

(MICROBIOLOGY)

III. Essay : (15 marks)

Enumerate the causative organisms of Enteric fever. Discuss in detail the lab diagnosis of Enteric fever.

IV. Short notes : (5 × 5 = 25)

- (a) Hot air oven.
- (b) Bacterial spore.
- (c) Chemical disinfectants.
- (d) Vaccine for Hepatitis B virus.
- (e) Hospital acquired infection.

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**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)

Essay :

(1 × 15 = 15)

(1) Discuss about Etiopathogenesis, Morphology complications of Rheumatoid Arthritis. Add a note on differential diagnosis also.

(12 + 3 = 15)

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

- (a) Osteosarcoma**
- (b) Bronchiectasis**
- (c) Psoriasis**
- (d) Necrosis**
- (e) Brain tumours.**

SECTION B

(MICROBIOLOGY)

I. Essay :

(1) Enumerate the causative organisms of Bacterial meningitis. Describe in detail the laboratory diagnosis of meningitis caused by streptococcus pyogens. (15)

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

- (a) Autoclave**
- (b) Louis Pasteur**
- (c) Type I hyper sensitivity**
- (d) Candida albicans**
- (e) Vaccine for Polio Virus.**