

**BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
(B.P.T.), NOVEMBER 1990.**

Third Semester

Paper I — PATHOLOGY AND MICROBIOLOGY

Time : Three hours.

Maximum : 100 marks.

(Common to Bachelor of Occupational Therapy Degree
Examination (B.O.T.) Third Semester — Paper II)

Answer Sections A and B in separate answer books.

SECTION A — PATHOLOGY (50 marks)

Answer ALL questions

1. Define inflammation. What are the cardinal signs of inflammation? Describe the inflammatory exudate. (10)
2. Write briefly on any FOUR of the following :
 - (a) Tuberculin test.
 - (b) Rickets.
 - (c) Thrombus.
 - (d) Atrophy.
 - (e) Bacterial meningitis. (4×5=20)
3. Write short notes on any FOUR of the following :
 - (a) Teratoma.
 - (b) Cushing's syndrome.
 - (c) Septic shock.
 - (d) Fibrosarcoma.
 - (e) Diphtheritic membrane (4×5=20)

SECTION B — MICROBIOLOGY (50 marks)

Answer Question No. 7 and any TWO of the remaining questions.

Define antigen. What are the different types of antigen-antibody reactions? (10)

Write short notes on :

- (a) sterilisation methods.
- (b) acquired immunity. (2×5=10)

16. Write briefly on :

- (a) A.F.B. stain.
- (b) Rabies.
- (c) McIntost Fildes jar.
- (d) Cross-infection. (2½×4=10)

Write short notes on any SIX of the following :

- (a) Antibiotic sensitivity test.
- (b) Wasserman test.
- (c) Hanging drop.
- (d) Exotoxins.
- (e) Bacillary dysentery.
- (f) Gas gangrene.
- (g) Leptospira test.
- (h) Streptococci. (6×5=30)

**BACHELOR OF PHYSIOTHERAPY (B.P.T.) DEGREE
EXAMINATION, NOVEMBER 1991.**

Third Semester

Paper I — PATHOLOGY AND MICROBIOLOGY

Time : Three hours.

Maximum : 100 marks

Answer Section A and B in separate answer books.

SECTION A — (50 marks)

(PATHOLOGY)

Answer ALL questions.

1. Discuss the healing of a fractured bone and mention the factors that influence wound healing. (10)
2. Write briefly on any *four* of the following :
 - (a) Fat embolism.
 - (b) Metaplasia.
 - (c) C.S.F. findings in Tuberculous Meningitis.
 - (d) Scurvy.
 - (e) Primary Complex. (4×5=20)
3. Write short notes on any *four* of the following :
 - (a) Rodent ulcer.
 - (b) Osteoclastoma.

(c) Types of Acute Inflammations.

(d) Amyloid Stains.

(e) Dystrophic Calcification. (4×5=20)

SECTION B — (50 marks)

(MICROBIOLOGY)

Define sterilisation and mention various methods of sterilisation. Describe autoclave in detail. (10)

Describe morphology, cultural characters and laboratory diagnosis of corynebacterium diphtheriae. (10)

Write short notes on any six of the following :

- (a) Precipitation reactions.
- (b) Gram staining.
- (c) Water-borne diseases and their prevention.
- (d) Viral vaccines.
- (e) Laboratory diagnosis of Pulmonary tuberculosis.
- (f) Bacterial toxins.
- (g) Structure of Immunoglobulin. (6×5=30)

April-1992

[674]

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION

APRIL 1992.

Third Semester — Old Regulations

Paper I — PATHOLOGY AND MICROBIOLOGY

(Common to B.P.T. and B.O.T.)

Time : Three hours.

Maximum : 100 marks

Answer Sections A and B in separate answer books.

Answer ALL questions.

SECTION A — (50 marks)

(Pathology)

1. Describe briefly the pathology of inflammation & repair. (1)

2. Write briefly on any FOUR :

(a) Miliary tuberculosis.

(b) Amoebic hepatitis.

(c) Aneurysm.

(d) Renal calculi

(e) Osteomyelitis.

(4 × 5 = 20)

3. Write short notes on any FOUR :

(a) Volkmann's ischaemia.

(b) Lepromatous leprosy.

(c) Rheumatoid arthritis.

(d) Malignant melanoma.

(e) Prostatic hypertrophy.

(4 × 5 = 20)

SECTION B — (50 marks)

(Microbiology)

4. Describe with examples the different antigen-antibody reactions. (10)

5. Write briefly on any FOUR :

(a) Methods of sterilization.

(b) Bacterial toxins.

(c) Gram staining.

(d) Widal Test

(e) Food poisoning

(4 × 5 = 20)

6. Write short notes on any FOUR :

(a) Bacterial spores.

(b) Antibigram.

(c) Asepsis.

(d) Hanging drop preparation.

(e) Acid-fast bacilli.

(4 × 5 = 20)

November-1994

ND 787

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION

Third Semester (Old Regulation)

Pathology and Microbiology

(Common to BPT and BOT)

Time: Three Hours

Max. Marks: 100

Answer section A and B in separate answer books

Answer all questions

Section-A Pathology

50 Marks

1. Describe the aetiology, classification and pathogenesis of shock. (10)

2. Write briefly on any four (4x5= 20)

- a. Phagocytosis
- b. Volkman's ischaemia
- c. Renal edema
- d. Fate of thrombus
- e. Oncogenic viruses

3. Write short notes on any four (4x5= 20)

- a. Primary complex
- b. Giant cells
- c. Classification of anaemias
- d. Osteogenic sarcoma
- e. Rheumatic fever

Section-B Microbiology

50 Marks

4. a. Define and classify sterilisation.
b. How will you sterilise surgical instruments?

5. Write briefly on any four :
a. Gram's staining
b. Prophylaxis against tetanus
c. Transmission of infection.
d. Food poisoning.
e. Wound infection.

6. Write short notes on any four
a. Classification of viruses.
b. Lab diagnosis of salmonella
c. Membrane filters.
d. Bacillary dysentery.
e. Coagulase test.

November-1995

[MB 904]

**Bachelor of Physiotherapy
Degree Examination**

(Old Regulations)

Third Semester

PATHOLOGY AND MICROBIOLOGY

(Common to BPT and BOT)

Time : Three hours. Maximum 100 : marks

Answer Sections A and B in separate answer books

Answer All questions.

SECTION—A

(PATHOLOGY)

1. What are the characteristics of benign and malignant neoplasms, and discuss briefly about mode of spread of tumors. (10)
2. Write briefly on any Four : (4X5 = 20)
 - a) Tuberculous meningitis
 - b) Fat embolism
 - c) Cardiac edema
 - d) Broncho pneumonia
 - e) Endogenous pigments.
3. Write short notes on any Four (4X5 = 20)
 - a) Carbuncle
 - b) Megaloblastic anemia
 - c) Types of infarction
 - d) Squamous cell carcinoma
 - e) Lepromatous leprosy.

**SECTION—B
(MICROBIOLOGY)**

4. a) Define and classify immunity. (10)
b) Compare active and passive immunity
5. Write briefly on any Four : (4X5 = 20)
 - a) Robert Koch
 - b) Rabies prophylaxis
 - c) Seitz filter
 - d) IgG
 - e) Autoclave
6. Write short notes on any Four : (4X5 = 20)
 - a) Pyogenic cocci
 - b) Exotoxins
 - c) Mantoux test
 - d) Candida albicans
 - e) Atopy

April-1996

(AK 904)

BACHELOR OF PHYSIOTHERAPY

★ DEGREE EXAMINATION

(Old Regulations)

Third Semester

PATHOLOGY AND MICROBIOLOGY

Time: Three hours

Max:100 marks

Answer Sections A and B in
separate answer books

Answer ALL Questions

SECTION-A
(PATHOLOGY)

1. Describe in detail about healing of fracture and the factors influencing healing of fracture. (10)
2. Write briefly on any FOUR: (4x5=20)
 - a) Chemotaxis.
 - b) Gangrene.
 - c) Atrophy.
 - d) Fate of Thrombi.
 - e) Metastatic Calcification.
3. Write short notes on any FOUR: (4x5=20)
 - a) Granuloma.
 - b) Osteomyelitis.
 - c) Morphology of Typhoid Ulcer.
 - d) Rickets.
 - e) Rheumatoid Nodule.

SECTION-B
(MICROBIOLOGY)

4. a) Name the waterborne bacterial (2x5=10) diseases.
b) Write briefly about laboratory diagnosis of Cholera.
5. Write briefly on any FOUR: (4x5=20)
 - a) Louis Pasteur.
 - b) Endotoxins.
 - c) Bacterial Capsule,
 - d) Ig M.
 - e) Pasteurisation.
6. Write short notes on any FOUR: (4x5=20)
 - a) Sabin Vaccine.
 - b) Disinfectant.
 - c) Widal test.
 - d) Acid fast staining.
 - e) Active Immunity.

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[SM 917]

Sub. Code : 5311

BACHELOR OF PHYSIOTHERAPY (BPT) DEGREE
EXAMINATION.

Third Semester

(Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time : Three hours

Maximum : 100 marks

Answer Section A and Section B in separate answer books.

SECTION A

(MICROBIOLOGY)

Write an essay on any ONE of the following :
(20)

1. (a) Write briefly etiology and laboratory diagnosis of cholera.

(b) Define and classify Immunity and compare active and passive Immunity.

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

(a) Bacterial spores.

(b) Mantoux test.

(c) Rabies prophylaxis.

(d) ELISA Test.

(e) Food poisoning.

(f) Candida albicans.

(g) Methods of sterilization.

(h) Cultivation of viruses.

SECTION B

(PATHOLOGY)

3. Write essay on any ONE of the following : (20)

(a) Describe briefly the pathology of inflammation and repair.

(b) What are the characteristics of benign and malignant neoplasms and discuss briefly the mode of spread of tumors?

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

(a) Gangrene.

(b) Lepromatous Leprosy.

(c) Phagocytosis.

(d) Rheumatic fever.

(e) Chemotaxis.

(f) Peptic ulcer.

(g) Types of infarction.

(h) Fate of thrombus.

**BACHELOR OF PHYSIOTHERAPY (BPT) DEGREE
EXAMINATION.**

Third Semester

(Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time : Three hours , Maximum : 100 marks

**Answer Section A and Section B in separate
answer books.**

SECTION A

(MICROBIOLOGY)

Write any ONE of the following : (20)

1. (a) Define the term sterilisation, disinfectants and antiseptic and discuss in detail the methods of sterilisation by heat, highlighting their merits and demerits.

(b) What is significant bacteriuria and discuss the etiology and lab. diagnosis of urinary tract infections.

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

- (a) Bacterial Spores.
- (b) Live Vaccines.
- (c) Nosocomial Infection.
- (d) Louis Pasteur.
- (e) Cultivation of viruses.
- (f) Widal Test.
- (g) Superficial Mycoses.
- (h) Commensals.

SECTION B

3. Answer any ONE of the following : (20)
- (a) Healing bone fractures.
 - (b) Primary tuberculosis.
4. Write short notes on any SIX of the following :
(6 × 5 = 30)
- (a) Fat embolism.
 - (b) Vitamin D deficiency.
 - (c) Brain abscess.
 - (d) Pathogenesis of Rheumatoid arthritis.
 - (e) Adult Respiratory distress syndrome.
 - (f) Etiopathogenesis of Rheumatic heart diseases
 - (g) Tumour markers.
 - (h) Osteosarcoma.

April-2000

[KB 910]

Sub. Code : 5211

**BACHELOR OF PHYSIOTHERAPY (BPT) DEGREE
EXAMINATION.**

Third Semester

(Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time Three hours

Maximum : 100 marks

Answer Section A and B in separate answer books.

SECTION A

(MICROBIOLOGY)

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

(a) Define disinfection and write an essay about the chemicals used as disinfectants.

(b) Enumerate the organisms causing enteric infections and write about salmonella typhi, its pathogenesis, diagnosis and prevention.

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

(a) Robert Koch

(b) Acid fast staining

(c) Growth curve

(d) Antibiotic sensitivity test

(e) Artificial active immunity

(f) Anaphylaxis

(g) Syphilis

(h) Candida albicans

SECTION B

(PATHOLOGY)

Answer any ONE of the following

(20)

(a) Events in acute inflammation

(b) Lobar pneumonia

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

(a) Gangrene

(b) Septic shock

(c) Scurvy

(d) Spread of tumours

[KB 910]

April-2000

- (e) Osteomyelitis
- (f) Scleroderma
- (g) Volkman's ischaemia
- (h) Berry Aneurysm

[KB 911]

Sub. Code : 5313

**BACHELOR OF PHYSIOTHERAPY (BPT) DEGREE
EXAMINATION.**

Third Semester

(New Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time : Three hours

Maximum : 100 marks

Answer Section A and B in separate answer books

SECTION A

(MICROBIOLOGY)

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

(a) Classify Bacteria. Describe the morphology and functions of the components of Bacteria

(b) Define Hospital Acquired Infections. Describe the mechanism and prevention of Hospital Acquired Infections.

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

(a) Louis Pasteur

(b) Gaseous sterilization

April-2000

- (c) Antibiotic susceptibility test
- (d) Delayed Hypersensitivity reaction
- (e) VDRL Test
- (f) Hepatitis 'B' virus infection
- (g) Cryptococcus Neoformans
- (h) Blood culture for Enteric fever.
- (d) Iron deficiency anaemia
- (e) Aortic aneurysms
- (f) Lobar pneumonia
- (g) Thrombogenesis
- (h) Paget's disease of the bone.

SECTION B

(PATHOLOGY)

Answer any ONE of the following [20]

- (a) Define inflammation and discuss about chemical mediators of inflammation.
- (b) Discuss about the pathogenesis and pathology of rheumatoid arthritis.

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

- (a) Necrosis
- (b) Lepromatous Leprosy
- (c) Viral carcinogenesis

[KC 910]

Sub. Code : 5211

2

Write short notes on any SIX

(6 × 5 = 30)

**BACHELOR OF PHYSIOTHERAPY (BPT)
DEGREE EXAMINATION.**

Third Semester

(Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time : Three hours DEC - 2000 Maximum : 100 marks

Answer Sections A and B in separate answer books

SECTION A

(MICROBIOLOGY)

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

(a) Define the term infection . Mention the factors essential to the process of infection and write briefly about the sources of infection.

(b) What is enteric fever? Describe the causative agents, laboratory diagnosis and prophylaxis of enteric fever.

(a) Louis Pasteur.

(b) Bacterial capsule.

(c) Acid fast staining.

(d) Incineration.

(e) Active immunity.

(f) Atopy.

(g) Dermatophytoses.

(h) Hepatitis B Vaccine.

SECTION B

(PATHOLOGY)

3. Answer any ONE of the following (2)

(a) Fracture Healing.

(b) Pathology of Rheumatoid arthritis.

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

- (a) Fatty degeneration.
- (b) Poliomyelitis.
- (c) Rickets.
- (d) Bronchiectasis.
- (e) Mitral stenosis.
- (f) Lepromatous Leprosy.
- (g) Meningitis.
- (h) Amyloidosis.

[KC 911]

Sub. Code : 5313

**BACHELOR OF PHYSIOTHERAPY (BPT) DEGREE
EXAMINATION.**

Third Semester

(New Modified Regulations)

Paper I — MICROBIOLOGY/PATHOLOGY

Time : Three hours Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

(MICROBIOLOGY)

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

(a) What are enteric infections? Describe the common causes of enteric infections, diagnosis, treatment and prevention of enteric infections.

Or

(b) Define infection. Describe the different sources of infection, the portals of entry of pathogenic microorganisms and the methods of spread of infection, providing suitable examples.

2. Write short notes on any SIX. Each question carries 5 marks. 6 × 5 = 30

(a) Lord Lister

(b) Bacterial conjugation

(c) Types of disinfectants

(d) Differences between natural and acquired immunity

(e) Syphilis

(f) Aspergillus

(g) Rabies virus

(h) Penicillins

SECTION B

(PATHOLOGY)

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

(a) Define Necrosis. Classify with one example for each type. Add a note on Morphology of a Necrotic cell.

(3 + 10 + 7 = 20)

Or

(b) Discuss in detail about Fracture Union. Add a note on factors essential for healing. (15 + 5 = 20)

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

- (a) Dystrophic calcification
- (b) Organisation of thrombus
- (c) Metastasis
- (d) Primary pulmonary tuberculosis
- (e) Rickets
- (f) Lobar pneumonia
- (g) Osteosarcoma
- (h) Tuberculous meningitis.