

APRIL - 2001

[KD 943]

Sub. Code : 5713

**BACHELOR OF OCCUPATIONAL THERAPY (BOT)
DEGREE EXAMINATION.**

Third Semester

(Modified Regulations)

Paper III — PATHOLOGY AND MICROBIOLOGY

Time : One and half hours Maximum : 50 marks

Answer Sections A and B in separate answer books.

**SECTION A
(PATHOLOGY)**

1. Answer any ONE of the following : (10)
 - (a) Leprosy.
 - (b) Pathology of inflammation.
2. Answer any THREE of the following : (3 × 5 = 15)
 - (a) Poliomyelitis.
 - (b) Scleroderma.
 - (c) Differences between benign and malignant tumors.
 - (d) Secondary shock.
 - (e) Leukemias.

SECTION B

(MICROBIOLOGY)

3. Write briefly on any ONE of the following : (10)
 - (a) Etiology and laboratory diagnosis of typhoid fever.

Or

- (b) Etiology and laboratory diagnosis of nosocomial infections.

4. Write short notes on any THREE of the following : (3 × 5 = 15)
 - (a) Rabies.
 - (b) Disinfectants.
 - (c) Hot air oven.
 - (d) Vaccines.

APRIL - 2001

[KD 945]

Sub. Code : 5811

**BACHELOR OF OCCUPATIONAL THERAPY
DEGREE EXAMINATION.**

Third Semester

(New Modified Regulations)

Paper III — PATHOLOGY AND MICROBIOLOGY

Time : One and a half hours Maximum : 50 marks

Answer Sections A and B in separate answer books.

SECTION A

(PATHOLOGY)

1. Answer any ONE of the following : (10)
 - (a) Healing of bone fracture.
 - (b) Spread of tumours.
2. Answer any THREE of the following : (3 × 5 = 15)
 - (a) Osteomyelitis.
 - (b) Phagocytosis.
 - (c) Edema.
 - (d) Primary tuberculosis.
 - (e) Iron deficiency anemia.

SECTION B

(MICROBIOLOGY)

3. Write briefly on any ONE of the following : (10)
 - (a) Etiological agents and lab diagnosis of meningitis. Add a note on the clinical findings in meningitis.

Or

- (b) Lab diagnosis of diphtheria.
4. Write short notes on any THREE of the following : (3 × 5 = 15)
 - (a) VDRL test.
 - (b) Methods of sterilisation.
 - (c) Acquired immunity.
 - (d) Bacterial spores.

NOVEMBER - 2001

[KE 945]

Sub. Code : 5811

**BACHELOR OF OCCUPATIONAL THERAPY
DEGREE EXAMINATION.**

Third Semester

(New Modified Regulations)

Paper III — PATHOLOGY AND MICROBIOLOGY

Time : One and a half hours Maximum : 50 marks

Answer Sections A and B in separate answer books.

SECTION A

(PATHOLOGY)

1. Answer any ONE of the following : (10)

(a) Define anaemia. Write a note on rheumatic and coronary heart diseases.

(b) Define autoimmunity. List autoimmune diseases. Write a note on any one of them.

2. Answer any THREE of the following : (3 × 5 = 15)

(a) Vit. C deficiency

(b) Gangrene

(c) Osteomyelitis

(d) Tumours

(e) Tuberculosis.

SECTION B

(MICROBIOLOGY)

3. Write briefly on any ONE of the following : (10)

(a) Enumerate the various bacteria which causes diarrhoeal diseases in man. Describe in detail the morphology, cultural character of vibrio cholerae and lab diagnosis of cholera.

Or

(b) Describe about the morphology, cultural character and pathogenesis of clostridium tetani and prevention of tetanus.

4. Write short notes on any THREE of the following : (3 × 5 = 15)

(a) Growth curve

(b) Widal test

(c) Human immunodeficiencies virus infection

(d) Significant bacteriurea.

MARCH - 2002

[KG 945]

Sub. Code : 5811

B.O.T. DEGREE EXAMINATION.

Third Semester

New Modified Regulations

Paper III — PATHOLOGY AND MICROBIOLOGY

Time : One and half hours Maximum : 50 marks

Answer Sections A and B in separate answer books.

SECTION A

(PATHOLOGY)

1. Answer any ONE of the following : (10)

(a) Describe the various steps involved in healing of wounds.

(b) Write in detail about the lesions seen in rheumatic heart disease.

2. Answer any THREE of the following : (3 × 5 = 15)

(a) Phagocytosis

(b) Vitamin C deficiency

(c) Pyogenic osteomyelitis

(d) Bronchial asthma

(e) Define and classify anaemias.

SECTION B

(MICROBIOLOGY)

Write briefly on any ONE of the following : (10)

3. Write a note on how sterilization is achieved by autoclave.

4. Define allergy. Write a note on hypersensitivity.

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

(a) Spore

(b) Hospital acquired infections

(c) Yeasts

(d) Rabies

(e) Louis Pasteur.

SEPTEMBER - 2002

[KH 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

Answer Sections A and B in **SEPARATE** answer books.

SECTION A

(PATHOLOGY)

1. Write an essay on any ONE of the following : (10)
 - (a) Aetiology, Pathogenesis and Pathology of Rheumatic Heart Disease
 - (b) Types of Aetiology and Pathogenesis of Emphysema.
2. Answer any THREE of the following : (3 × 5 = 15)
 - (a) Scleroderma
 - (b) Pyogenic meningitis
 - (c) Vit. C deficiency
 - (d) Iron deficiency anaemia
 - (e) Thrombo Angitis Obliterans (TAO).

SECTION B

(MICROBIOLOGY)

3. Write an essay on any ONE of the following : (10)
 - (a) Discuss the various methods of sterilization along with merits and demerits of each.
 - (b) Discuss the source and mode of spread of infections.
4. Answer any THREE of the following : (3 × 5 = 15)
 - (a) Fimbriae
 - (b) Gaseous disinfectant
 - (c) Candida albicans
 - (d) Nosocomial infections
 - (e) Rabies.

APRIL - 2003

[KI 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

Answer Sections A and B in SEPARATE answer books.

SECTION A

(PATHOLOGY)

Answer any ONE of the following :

1. (a) Define Shock. Write about various types of shock.

Or

(b) Define Inflammation and write about vascular phenomenon of inflammation in detail. (10)

2. Write short notes on any THREE : (3 × 5 = 15)

- (a) Factors influencing healing.
- (b) Lepromatous leprosy.
- (c) Air embolism.
- (d) Metastasis.
- (e) Stages of lobar pneumonia.

SECTION B

(MICROBIOLOGY)

3. Write briefly any ONE of the following : (10)

(a) Write structure and functioning of Hot air oven.

(b) What is immunity? Classify immunity with examples.

4. Write short notes on any THREE : (3 × 5 = 15)

- (a) Capsule.
- (b) Robert Koch.
- (c) Candidiasis.
- (d) BCG vaccine.
- (e) Nosocomial infections.

OCTOBER - 2003

[KJ 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

Theory : One hour and Theory : 40 marks
Twenty minutes

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

M.C.Q. must be answered **SEPARATELY** on the answer sheet provided as per the instructions on the first page of the M.C.Q. booklet.

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

Answer **ALL** questions.

Draw suitable diagrams wherever necessary.

SECTION A

(PATHOLOGY)

I. Write any ONE : (10)

(1) Discuss the etiology, pathology and joint manifestations in Rheumatoid Arthritis.

Or

(2) Discuss the etiology, pathology and clinical manifestations of sex linked muscular dystrophies.

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

(a) Primary complex

(b) Differences between Benign and Malignant tumours

(c) Spread of tumour.

SECTION B

(MICROBIOLOGY)

I. Write any ONE : (1 × 10 = 10)

(1) Write an essay on methods of sterilization using heat.

Or

(2) Classify hypersensitivity add a note on anaphylaxis.

II. Short notes (Answer any TWO) : (2 × 5 = 10)

(a) Classify bacteria

(b) Robert Koch

(c) Ziehl-Neelson staining.

AUGUST - 2004

[KL 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

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 on any ONE : (1 × 10 = 10)

(1) Define neoplasia. Write the different pathways involved in the spread of tumours.

Or

(2) Define and classify anaemia. Write a note on iron deficiency anaemia.

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

- (a) Pneumonia**
- (b) Rheumatoid arthritis**
- (c) Volkmanns ischaemia.**

SECTION B

(MICROBIOLOGY)

III. Write any ONE essay : (10)

(1) Explain the different routes of transmission of infection, with examples.

Or

(2) Sterilization by chemical methods.

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

- (a) Natural Immunity**
- (b) Hepatitis B infection**
- (c) Poliomyelitis.**

FEBRUARY - 2005

[KM 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

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)

Define Tumour. Describe various methods of spread of tumours. (2 + 2 + 6 = 10)

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

(a) Osteogenic sarcoma

(b) Meningitis.

SECTION B

(MICROBIOLOGY)

III. Essay : (10)

Describe the structure of Bacteria.

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

(a) Pasteurisation.

(b) Candida albicans.

AUGUST - 2005

[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)

I. Essay : (1 × 10 = 10)

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

II. 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.

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.

AUGUST - 2006

[KP 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) Define Inflammation. Discuss the cellular
Events in Acute Inflammation in Detail. (10)

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

(a) Bronchiectasis.

(b) Poliomyelitis.

SECTION B

(MICROBIOLOGY)

III. Essay :

(1) What are the different methods of
sterilisation in microbiology? Write in detail about the
chemical methods of sterilisation. (5 + 5 = 10)

IV. Short notes : (2 × 5 = 10)

(a) Meningitis.

(b) Hepatitis B. Virus.

AUGUST - 2006

[KP 996]

Sub. Code : 6116

SECTION B

(MICROBIOLOGY)

B.O.T. DEGREE EXAMINATION.

Second Year

(Revised Non-Semester Regulations)

Paper I — PATHOLOGY AND MICROBIOLOGY

Time : One and a half hours

Maximum : 50 marks

**Theory : One hour and
twenty minutes**

Theory : 40 marks

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) Define Neoplasm. Discuss in detail the
differences between benign and malignant neoplasm.**

(10)

II. Write short notes on :

(2 × 5 = 10)

(a) Primary complex

(b) Aplastic anaemia.

III. Essay :

(10)

**(1) Define and classify acquired immunity and
write in detail about active immunity.**

IV. Short notes :

(2 × 5 = 10)

(a) Contributions of Louis Pasteur

(b) Polio virus.

FEBRUARY - 2007

[KQ 966]

Sub. Code : 6116

B.O.T. DEGREE EXAMINATION.

Second Year

**(Revised Non-Semester and Third Semester
New modified Regulation)**

MICROBIOLOGY AND PATHOLOGY

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
(MICROBIOLOGY)**

I. Essay : (10)

**(1) Define, classify and write in detail about
Hypersensitivity reactions.**

II. Short notes : (2 × 5 = 10)

(a) Contributions of Robert Koch.

(b) HIV.

SECTION B

(PATHOLOGY)

III. Essay :

**(1) Define necrosis and describe the various
types of necrosis with suitable examples. (10)**

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

(a) Rickets.

(b) Pulmonary tuberculosis.

FEBRUARY 2008

[KS 996]

Sub. Code : 6116

B.O.T. DEGREE EXAMINATION.

Second Year

**(Revised Non-Semester and Third Semester
New modified Regulation)**

MICROBIOLOGY AND PATHOLOGY

Q.P. Code : 786116

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 Section A and B in SEPARATE Answer Books.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

**SECTION A
(MICROBIOLOGY)**

- I. Essay : (1 × 10 = 10)
1. Hospital Acquired infections.
- II. Short notes : (2 × 5 = 10)
1. Louis Pasteur.
2. Candida albicans.

SECTION B

(PATHOLOGY)

III. Essay :

1. Define thrombosis. Briefly discuss the etiopathogenesis and complication of thrombosis.
(1 + 7 + 2 = 10)

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

1. Osteomyelitis.
2. Megaloblastic anemia.
-

AUGUST 2008

[KT 996]

Sub. Code : 6116

B.O.T. DEGREE EXAMINATION.

Second Year

**(Revised Non–Semester and Third Semester New
modified Regulation)**

MICROBIOLOGY AND PATHOLOGY

Q.P. Code : 786116

Time : One and a half hours Maximum : 50 marks

Answer Section A and B in Separate Answer Books.

Answer ALL questions.

Draw suitable diagrams wherever necessary

SECTION A

(MICROBIOLOGY)

I. Essay : (3 + 3 + 4 = 10)

**1. Enumerate the organisms causing food poisoning.
Write about the pathogenesis and laboratory diagnosis
of bacillary dysentery.**

AUGUST 2008

II. Short notes : (2 × 5 = 10)

1. Serological markers of hepatitis B infection.
2. Passive immunity.

III. Short answers: (3 × 2 = 6)

1. Classify the bacteria on the basis of shape.
2. Mention any four methods of transmission of infection with suitable example.
3. Mention four RNA viruses.

SECTION B

(PATHOLOGY)

IV. Essay. (1 × 10 = 10)

1. Define bronchiectasis. Write in detail about the pathogenesis and morphology of bronchiectasis.

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

1. Iron deficiency anemia.
2. Factors influencing wound healing.

VI. Write short answers : (2 × 2 = 4)

1. Four differences between benign and malignant tumors.
 2. Four differences between wet gangrene and dry gangrene.
-

February 2009

[KU 996]

Sub. Code: 6116

**BACHELOR OF OCCUPATIONAL THERAPY
DEGREE EXAMINATION**

Second Year

**Revised Non–Semester and
Third Semester New Modified Regulations
MICROBIOLOGY AND PATHOLOGY**

Q.P. Code : 786116

Time : One and a half hours

Maximum : 50 marks

Answer All questions.

Draw suitable diagrams wherever necessary

Section A and B must be answered in a SEPARATE answer book

**SECTION – A
(MICROBIOLOGY)**

I. Essay: (1 x 10 = 10)

1. Define sterilization. Enumerate the various physical methods of sterilization. Write in detail about autoclave.

II. Short Notes: (2 x 5 = 10)

1. Pulse polio immunization.
2. Mode of transmission and prevention of Hospital acquired infection.

III. Short Answers: (3 x 2 = 6)

1. Enumerate four cutaneous lesions caused by staphylococcus aureus.
2. Name the fungi causing nail infections.
3. Mention hepatitis virus transmitted by faeco-oral route.

**SECTION – B
(PATHOLOGY)**

IV. Essay: (1 x 10 = 10)

1. Define inflammation. What are the signs of inflammation. Write in detail about phagocytosis.

V. Short Notes: (2 x 5 = 10)

1. Secondary tuberculosis.
2. Fatty change.

VI. Short Answers: (2 x 2 = 4)

1. Four causes of iron deficiency anaemia.
2. Four stages of lobar pneumonia.

August 2009

[KV 996]

Sub. Code: 6116

**BACHELOR OF OCCUPATIONAL THERAPY
DEGREE EXAMINATION**

Second Year

**Revised Non–Semester and
Third Semester New Modified Regulations
MICROBIOLOGY AND PATHOLOGY**

Q.P. Code : 786116

Time : One and a half hours

Maximum : 50 marks

Answer All questions.

Draw suitable diagrams wherever necessary

Section A and B must be answered in a SEPARATE answer book

**SECTION – A
(MICROBIOLOGY)**

I. Essay: (1 x 10 = 10)

1. Define Zoonoses. Enumerate the zoonotic diseases. Discuss about prophylaxis against rabies.

II. Short Notes: (2 x 5 = 10)

1. Bacterial cell wall.
2. Chemical disinfectants.

III. Short Answers: (3 x 2 = 6)

1. Enumerate four diseases produced by candida albicans.
2. Mention four opportunistic infections in AIDS.
3. First aid treatment for cholera.

**SECTION – B
(PATHOLOGY)**

IV. Essay: (1 x 10 = 10)

1. Write in detail about the pathogenesis and morphology of leprosy.

V. Short Notes: (2 x 5 = 10)

1. Parkinson's disease.
2. Fat Embolism.

VI. Short Answers: (2 x 2 = 4)

1. Alzheimer's disease.
2. Volkmann's ischaemia.

August 2010

[KX 996]

Sub. Code : 6116

**BACHELOR OF OCCUPATIONAL THERAPY
DEGREE EXAMINATION**

**Second Year Revised Non – Semester and
Third Semester New Modified Regulations**

MICROBIOLOGY AND PATHOLOGY

Q.P. Code : 786116

Time : One and a half hours

Maximum : 50 marks

ANSWER ALL QUESTIONS

Section A and B must be answered in a SEPARATE answer book

Draw suitable diagrams wherever necessary

**SECTION – A
(MICROBIOLOGY)**

I. Essay: (10)

1. Describe Morphology of Rabies virus. Write about the treatment and prevention of Rabies.

II. Short Notes: (2x5=10)

1. Hospital Acquired Infection.
2. Syphilis.

III. Short Answers: (3x2=6)

1. Bacterial reproduction types.
2. Flagella.
3. Mention Pathogenic Fungi.

**SECTION – B
(PATHOLOGY)**

IV. Essay: (10)

1. Mention the difference between benign and malignant tumour. Discuss the spread of tumour.

V. Short Notes: (2x5=10)

1. Tuberculous Arthritis.
2. Healing of a Fracture.

VI. Short Answers: (2x2=4)

1. Four complications of Gastritis.
2. Lepromatus Leprosy.
