

February 2012

[LA 6155]

Sub. Code: 6155

**BACHELOR OF OCCUPATIONAL THERAPY EXAMINATION
SECOND YEAR**

Paper I –MICROBIOLOGY/ PATHOLOGY

Q.P. Code: 786155

Time: Three hours

Maximum: 100 marks

ANSWER ALL QUESTIONS

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1X20=20)

1. Classify different types of hypersensitivity. Discuss in detail about Type I hypersensitivity.

II. Write notes on: (4X5=20)

1. Acquired Immunity.
2. Hot air oven.
3. Rabies vaccine.
4. Antibiotic susceptibility test.

III. Short Answers: (5X2=10)

1. List the two types of Polio Vaccine.
2. List two fungi causing Respiratory infections.
3. Name the causative agent of Syphilis.
4. List four disinfectants which are commonly used.
5. Name two acid fast bacilli.

**SECTION-B
(PATHOLOGY)**

IV. Elaborate on: (1X20=20)

1. Write in detail about asthma.

V. Write notes on: (4X5=20)

1. Venous Thrombosis.
2. Megaloblastic anemia.
3. Leprosy.
4. Scleroderma.

VI. Short Answers: (5X2=10)

1. Endogenous pigments.
2. Define Ulcer.
3. Pneumoconiosis.
4. Toxic myopathies.
5. Tumour and tumour like conditions of vessels.

[LB 6155]

AUGUST 2012

Sub. Code: 6155

SECOND YEAR BOT EXAM

Paper – I MICROBIOLOGY/ PATHOLOGY

Q.P. Code: 786155

Time: Three hours

Maximum: 100 marks

(180 Min) Answer ALL Questions in the same order.

Section A and B must be answered in SEPARATE Answer Book.

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on:

**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|----|----|----|
| 1. Outline the common pathogenic agents that cause Sexually transmitted disease. Write in detail the morphology, pathogenesis and management of HIV infection. | 19 | 33 | 20 |
|--|----|----|----|

II. Write notes on:

- | | | | |
|--------------------------|---|---|---|
| 1. Anaerobic infections. | 3 | 8 | 5 |
| 2. Innate immunity. | 3 | 8 | 5 |
| 3. Polio Virus. | 3 | 8 | 5 |
| 4. Koch's postulates. | 3 | 8 | 5 |

III. Short Answers:

- | | | | |
|---|---|---|---|
| 1. Name the modes of transmission of infection. | 1 | 5 | 2 |
| 2. BCG. | 1 | 5 | 2 |
| 3. Classify Bacteria according to the arrangement of Flagella. | 1 | 5 | 2 |
| 4. Name two bacterial agents causing Sexually Transmitted Diseases. | 1 | 5 | 2 |
| 5. Name two pathogenic Fungi. | 1 | 5 | 2 |

**SECTION-B
(PATHOLOGY)**

I. Elaborate on:

- | | | | |
|--|----|----|----|
| 1. Write in detail about dissemination of tumours. | 19 | 33 | 20 |
|--|----|----|----|

II. Write notes on :

- | | | | |
|---|---|---|---|
| 1. Raynaud Phenomenon. | 3 | 8 | 5 |
| 2. Psoriasis. | 3 | 8 | 5 |
| 3. Acute pyogenic meningitis. | 3 | 8 | 5 |
| 4. Effects of tobacco smoke constituents. | 3 | 8 | 5 |

III. Short Answers :

- | | | | |
|--|---|---|---|
| 1. Enumerate pathological effects of repair. | 1 | 5 | 2 |
| 2. Define Infarct. | 1 | 5 | 2 |
| 3. Enumerate Opportunistic Fungal infections in patients with HIV infection. | 1 | 5 | 2 |
| 4. Name carcinogenic radiations. | 1 | 5 | 2 |
| 5. Name the common malignant tumours in the age 0 – 4 years. | 1 | 5 | 2 |

[LC 6155]

FEBRUARY 2013

Sub. Code: 6155

SECOND YEAR BOT EXAM

Paper – I MICROBIOLOGY/ PATHOLOGY

Q.P. Code: 786155

**Time: Three hours
(180 Min)**

Maximum: 100 marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION – A
(MICROBIOLOGY)**

I. Elaborate on: (1X20=20)

1. Laboratory diagnosis of Tuberculosis. Add a note on BCG.

II. Write notes on: (4X5=20)

1. Type-I hypersensitivity.
2. Hot air oven.
3. Cryptococcosis.
4. Hepatitis B virus.

III. Short Answers on: (5X2=10)

1. Bacterial spore.
2. Significant bacteriuria.
3. Define: Immunity.
4. Lepromin test.
5. Polymerase chain reaction.

**SECTION-B
(PATHOLOGY)**

IV. Elaborate on: (1X20=20)

1. Define shock. Discuss the pathophysiology and stages of shock.

V. Write notes on: (4X5=20)

1. Rickets.
2. Emphysema.
3. Poliomyelitis.
4. Fate of Embolism.

VI. Short Answers on: (5X2=10)

1. Primary Complex.
2. Types of necrosis.
3. Involucrum.
4. Complications of wound healing.
5. Tetralogy of fallot.

[LD 6155]

AUGUST 2013

Sub. Code : 6155

SECOND YEAR BOT EXAM

PAPER I – PATHOLOGY & MICROBIOLOGY

Q.P. Code: 786155

Time: Three hours

Maximum : 100 marks

Section A and B must be answered in SEPARATE Answer Book

SECTION A

(PATHOLOGY)

I. Elaborate on: (1x20 = 20)

1. Define Apoptosis. Discuss in detail about causes, biochemical changes and mechanism of apoptosis.

II. Write Notes on: (4x5 = 20)

1. Pathological Calcification
2. Granulation tissue
3. Downs syndrome.
4. Emphysema

III. Short Answers on: (5x2 = 10)

1. Clinical features of Rheumatoid Arthritis.
2. Sequestrum
3. Opportunistic infection in HIV
4. Diseases caused by Asbestos exposure.
5. Clinical features of vitamins A Deficiency

SECTION B

(MICROBIOLOGY)

I. Elaborate on: (1x20 = 20)

1. Define hospital acquired infection, and write about Transmission, Lab. diagnosis and prevention.

II. Write Notes on: (4x5 = 20)

1. Hot air oven.
2. Urinary tract infection.
3. Active Immunity
4. Candia albicans

III. Short Answers on: (5x2 = 10)

1. AIDS
2. Poliomyelitis.
3. Tuberculosis.
4. Bacterial cell wall.
5. Food poison.

[LE 6155]

FEBRUARY 2014

Sub. Code : 6155

SECOND YEAR BOT EXAM

PAPER I – PATHOLOGY & MICROBIOLOGY

Q.P. Code: 786155

Time: Three hours

Maximum : 100 marks

Section A and B must be answered in SEPARATE Answer Book

SECTION A

(PATHOLOGY)

I. Elaborate on: (1x20 = 20)

1. Discuss about **Wound Healing**. Write about **Local and Systemic factors** that influence Wound Healing

II. Write Notes on: (4x5 = 20)

1. Fat embolism
2. Differences between Benign and Malignant tumours.
3. Gangrene
4. Tuberculosis

III. Short Answers on: (5x2 = 10)

1. Apoptosis.
2. Types of Emphysema.
3. Aschoff nodule.
4. Types of Leprosy
5. Types of Infarct.

SECTION B

(MICROBIOLOGY)

I. Elaborate on: (1x20 = 20)

1. Define sterilization, classify the various methods and add a note on Autoclave.

II. Write Notes on: (4x5 = 20)

1. Draw a diagram of Bacterial cell.
2. Immunity
3. Disinfectants
4. Typhoid fever.

III. Short Answers on: (5x2 = 10)

1. Water borne diseases.
2. Candida albicans
3. Anaphylaxis.
4. Infection
5. Tetanus.

[LF 6155]

AUGUST 2014

Sub. Code : 6155

**SECOND YEAR BOT EXAM
PAPER I – PATHOLOGY & MICROBIOLOGY**

Q.P. Code: 786155

Time: Three Hours

Maximum: 100 marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION A
(PATHOLOGY)**

I. Elaborate on: (1x20=20)

1. Discuss the etiology, pathology and clinical manifestations of sex linked muscular dystrophies.

II. Write Notes on: (4x5=20)

1. Occupational Cancers
2. Iron deficiency anaemia
3. Volkmann's Ischaemia
4. Chronic Bronchitis

II. Short Answers on: (5x2=10)

1. Cardinal Signs of inflammation
2. Pyogenic meningitis
3. Salient features of Vitamin A deficiency
4. Types of shock with clinical examples
5. Pathways of spread of tumours

**SECTION B
(MICROBIOLOGY)**

I. Elaborate on: (1x20=20)

1. Write in detail about the morphology, mode of transmission, pathogenesis and laboratory diagnosis of HIV.

II. Write Notes on: (4x5=20)

1. Explain types of sterilization
2. Define anaerobic culture method
3. Explain Enteric fever and its laboratory diagnosis
4. Candidiasis

III. Short Answers on: (5x2=10)

1. Cell mediated immunity
2. Bacterial spores
3. BCG vaccine
4. Laboratory diagnosis of syphilis
5. Hospital acquired infection

[LG 6155]

FEBRUARY 2015

Sub. Code : 6155

**SECOND YEAR BOT EXAMINATION
PAPER I – PATHOLOGY & MICROBIOLOGY**

Q.P. Code: 786155

Time: Three hours

Maximum: 100 marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION A
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define shock. Write about various types of shock with clinical examples and principal mechanisms.

II. Write notes on: (4 x 5 = 20)

1. Carcinogenic Chemicals
2. Granuloma
3. Scleroderma
4. Bronchiectasis

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

1. Pathways of spread of tumours
2. Megaloblastic anemia
3. Poliomyelitis
4. Salient features of Vitamin C deficiency
5. List the clinical manifestations of Ischemic Heart Disease (Coronary Artery Disease)

**SECTION B
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Write in detail about the morphology, pathogenesis and laboratory diagnosis of Vibrio Cholera.

II. Write notes on: (4 x 5 = 20)

1. Explain different types of Motility
2. Robert Koch
3. Define hypersensitivity and explain type I hypersensitivity
4. Explain the organism causing sexually transmitted diseases and its laboratory diagnosis.

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

1. Name the organism causing urinary tract infection
2. Autoclave
3. Define Immunity
4. Name three bacteria causing Respiratory Tract Infection
5. Mantoux Test

B.O.T. DEGREE EXAMINATION
SECOND YEAR
PAPER I – PATHOLOGY & MICROBIOLOGY

Q.P. Code: 786155

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

Section A and B must be answered in SEPARATE Answer Book

SECTION A
(PATHOLOGY)

I. Elaborate on: **(1 x 20 = 20)**

1. Define Neoplasia. Enumerate the differences between benign and malignant tumours.

II. Write notes on: **(4 x 5 = 20)**

1. Apoptosis.
2. Thromboangiitis Obliterans (Buerger Disease).
3. Define and classify anaemia.
4. Duchenne muscular dystrophy.

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

1. Hypertrophy.
2. Histoid leprosy.
3. Rheumatic mitral valve disease.
4. Bronchial Asthma.
5. TB Meningitis.

SECTION B
(MICROBIOLOGY)

I. Elaborate on: **(1 x 20 = 20)**

1. Draw a diagram of bacterial cell and label its parts.
Classify the bacteria according to its shape and give examples for each.
Write in detail about Bacterial Capsule and Cell wall.

II. Write notes on: **(4 x 5 = 20)**

1. Autoclave.
2. Active immunity.
3. Universal Precautions.
4. Dermatophytes.

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

1. Name two mechanism of action of antibiotics that act against bacteria.
2. Name four ways by which infection is transmitted from one person to another.
3. Four methods of transmission of HIV infection.
4. Name four sexually transmitted diseases.
5. Name four pathogenic agents causing Respiratory Tract Infections.

[LI 6155]

FEBRUARY 2016

Sub. Code : 6155

**SECOND YEAR BOT EXAMINATION
PAPER I – PATHOLOGY & MICROBIOLOGY**

Q.P. Code: 786155

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION A
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Write in detail causes, pathology and diagnosis of Iron Deficiency Anaemia.

II. Write notes on: (4 x 5 = 20)

1. Intestinal lesions in typhoid.
2. Fate of thrombus.
3. Spread of tumours.
4. Bone changes in rickets.

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

1. Cells of chronic inflammation.
2. Types of Leprosy.
3. Septic infarct.
4. Primary shock.
5. Primary complex.

**SECTION B
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Describe the structure and functions of the bacterial cell wall with special reference to gram negative bacteria.

II. Write notes on: (4 x 5 = 20)

1. Bacterial Spore with diagram.
2. Enumerate the zoonotic diseases.
3. Antigenic variation of salmonella.
4. Pasteurization.

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

1. Germ tube.
2. Adjuvant.
3. Name any four organism causing Urinary Tract Infection.
4. Define Meningitis.
5. Motility in bacteria.

[LJ 6155]

AUGUST 2016

Sub. Code : 6155

**SECOND YEAR BOT EXAMINATION
PAPER I – PATHOLOGY & MICROBIOLOGY**

Q.P. Code: 786155

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION A
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Write in detail about the aetiology, pathology and fate of Infarction.

II. Write notes on: (4 x 5 = 20)

1. Healing of fracture.
2. Coagulation necrosis.
3. Pulmonary embolism.
4. Diabetic kidney.

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

1. Lepromatous leprosy.
2. Renal edema.
3. Aschof Nodule.
4. Tuberculous granuloma.
5. Symptoms of Anaemia.

**SECTION B
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. List the Antigen-antibody reactions. Enumerate the characters of Immuno-fluorescent test.

II. Write notes on: (4 x 5 = 20)

1. Enumerate the mechanism of Auto immunity.
2. Bacterial capsule.
3. Classification of streptococcus.
4. Bacteriological examination of water.

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

1. Complement.
2. Bacterial toxins.
3. Mantoux test.
4. Name the four organism causing food poisoning.
5. Name any two spore producing bacteria.

[LK 6155]

FEBRUARY 2017

Sub. Code : 6155

**BOT DEGREE EXAMINATION
SECOND YEAR
PAPER I – PATHOLOGY & MICROBIOLOGY**

Q.P. Code: 786155

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION A
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Discuss about Wound Healing. Write about the factors that influence wound healing. Add a note on the complications of wound healing.

II. Write notes on: (4 x 5 = 20)

1. Sex linked muscular dystrophies.
2. Chronic Bronchitis.
3. Poliomyelitis.
4. Iron deficiency Anemia.

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

1. Cardinal signs of inflammation.
2. Salient features of Vitamin C deficiency.
3. Types of shock with clinical examples.
4. Diseases caused by Asbestos exposure.
5. Carcinogenic chemicals.

**SECTION B
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Write in detail about signs and symptoms, pathogenesis, diagnosis, prevention and treatment of Streptococcal infection.

II. Write notes on: (4 x 5 = 20)

1. Causes and symptoms of bacterial meningitis.
2. Control and prevention of hospital acquired infection.
3. Differentiate sterilization and disinfectant.
4. Brief about the types of hypersensitivity.

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

1. Prevention of tuberculosis.
2. Passive immunity.
3. Different mode of transmission.
4. Candidiasis.
5. Functions of flagella.

[LL 6155]

AUGUST 2017

Sub. Code : 6155

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2013-2014 onwards)
SECOND YEAR
PAPER I – PATHOLOGY & MICROBIOLOGY

Q.P. Code: 786155

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

SECTION A
(PATHOLOGY)

I. Elaborate on: (1 x 20 = 20)

1. Write in detail causes, pathology and diagnosis of Iron Deficiency Anaemia.

II. Write notes on: (4 x 5 = 20)

1. Duchenne muscular dystrophy.
2. Bronchial Asthma.
3. Occupational cancers.
4. Factors that influence wound healing.

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

1. List the bone changes in rickets.
2. Define oedema.
3. Rheumatoid nodule.
4. List the clinical manifestations of Ischemic Heart Disease (Coronary Artery Disease).
5. Poliomyelitis.

SECTION B
(MICROBIOLOGY)

I. Elaborate on: (1 x 20 = 20)

1. Enumerate the organism causing sexually transmitted diseases. Explain in detail about the cause, signs and symptoms, pathogenesis, diagnosis, treatment and prevention of syphilis.

II. Write notes on: (4 x 5 = 20)

1. Write a note on water borne hepatitis.
2. Antimicrobial susceptibility test.
3. Compare and differentiate aerobic and anaerobic bacteria. Give two example for anaerobic bacteria.
4. Types of reproduction in Bacteria.

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

1. Bacterial meningitis.
2. Anaphylaxis reaction.
3. Prevention of tuberculosis.
4. Bacterial spores.
5. Acquired immunity.

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

[LM 6155]

FEBRUARY 2018

Sub. Code : 6155

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2013-2014 onwards)
SECOND YEAR
PAPER I – PATHOLOGY & MICROBIOLOGY

Q.P. Code: 786155

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

SECTION A
(PATHOLOGY)

I. Elaborate on: (1 x 20 = 20)

1. Define Inflammation. What are the causes of Chronic Inflammation? Describe in detail about the pathogenesis and morphology of Granulomatous inflammation.

II. Write notes on: (4 x 5 = 20)

1. Tuberculous granuloma.
2. Define Shock. What are the types of shock?
3. Cellular changes in Neoplasia.
4. Peripheral smear in Megaloblastic Anaemia.

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

1. Coagulation Necrosis.
2. Cardiac edema.
3. Pneumonia – causes.
4. Embolism – types.
5. Volkman's Ischaemia.

SECTION B
(MICROBIOLOGY)

I. Elaborate on: (1 x 20 = 20)

1. Define Hospital acquired infection, and write about transmission, lab diagnosis and prevention.

II. Write notes on: (4 x 5 = 20)

1. Draw a diagram of bacterial cell.
2. Autoclave.
3. Active immunity.
4. Hepatitis B Virus.

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

1. List the two types of Polio vaccine.
2. Name the modes of transmission of infection.
3. AIDS.
4. Name the organism causing urinary tract infection.
5. Name four sexually transmitted diseases.

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

[LN 6155]

AUGUST 2018

Sub. Code : 6155

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2013-2014 onwards)
SECOND YEAR
PAPER I – PATHOLOGY & MICROBIOLOGY

Q.P. Code: 786155

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

SECTION A
(PATHOLOGY)

I. Elaborate on: (1 x 20 = 20)

1. Define Shock. What are the types of shock? Describe in detail about the etio-pathogenesis of shock.

II. Write notes on: (4 x 5 = 20)

1. Factors influencing wound healing.
2. Types of Necrosis.
3. Septic Arthritis.
4. Tuberculoid leprosy.

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

1. Define Anaemia and mention four symptoms.
2. Mention four common tumours.
3. Emphysema-types.
4. Define Oedema. Types of Oedema.
5. Volkman's ischaemia.

SECTION B
(MICROBIOLOGY)

I. Elaborate on: (1 x 20 = 20)

1. Draw a diagram of bacterial cell and label its parts. Classify the bacteria according to its shape and give examples for each. Write in detail about bacterial capsule and cell wall.

II. Write notes on: (4 x 5 = 20)

1. Robert Koch.
2. Define hypersensitivity and explain type I hypersensitivity.
3. Hot air oven.
4. Universal precautions.

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

1. Name any four organism causing Urinary Tract Infection.
2. Define immunity.
3. Four methods of transmission of HIV infection.
4. Name four sexually transmitted diseases.
5. Food poisoning.

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

[LO 6155]

FEBRUARY 2019

Sub. Code : 6155

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2013-2014 onwards)
SECOND YEAR
PAPER I – PATHOLOGY & MICROBIOLOGY

Q.P. Code: 786155

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

SECTION A
(PATHOLOGY)

I. Elaborate on: (1 x 20 = 20)

1. Define Oedema. What are the types of Oedema? Describe in detail about the etio-pathogenesis and morphology of Oedema.

II. Write notes on: (4 x 5 = 20)

1. Fracture healing.
2. Define Gangrene. What are the types of Gangrene?
3. Diabetic Kidney.
4. Tuberculosis-pathogenesis and types.

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

1. Aschoff nodule.
2. Types of Pneumonia.
3. Infarct -types.
4. Osteomyelitis.
5. Volkman's ischaemia.

SECTION B
(MICROBIOLOGY)

I. Elaborate on: (1 x 20 = 20)

1. Write in detail about the morphology, mode of transmission, pathogenesis and laboratory diagnosis of HIV.

II. Write notes on: (4 x 5 = 20)

1. Louis Pasteur.
2. Pasteurization.
3. Differentiate sterilization and disinfectant.
4. Laboratory diagnosis of Tuberculosis.

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

1. Cell mediated immunity.
2. Poliomyelitis.
3. Tetanus.
4. Water borne disease.
5. Name four sexually transmitted diseases.

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

[LP 6155]

AUGUST 2019

Sub. Code : 6155

**BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2013-2014 onwards)**

**SECOND YEAR
PAPER I – PATHOLOGY & MICROBIOLOGY**

Q.P. Code: 786155

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION A
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Describe the process of wound healing with its factors that influence tissue repair. Add a note on regeneration.

II. Write notes on: (4 x 5 = 20)

1. Rheumatoid arthritis.
2. Definition of gangrene, explain its types.
3. Bronchial asthma.
4. Fat embolism.

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

1. Osteoporosis.
2. Chronic bronchitis.
3. Shock and its types.
4. Angina pectoris.
5. Cardinal signs of acute inflammation.

**SECTION B
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define Culture Media. Mention different types of media and explain in detail about differential media.

II. Write notes on: (4 x 5 = 20)

1. Differences between Prokaryote & Eukaryote.
2. Water Borne Diseases.
3. HIV.
4. Type I Hypersensitivity.

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

1. Fluorescent Microscope.
2. Tapeworm.
3. BCG.
4. Bacterial Spore.
5. Active Immunity.

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

[LQ 6155]

FEBRUARY 2020

Sub. Code : 6155

BOT DEGREE EXAMINATION

(Regulations for the candidates admitted from 2013-2014 onwards)

SECOND YEAR

PAPER I – PATHOLOGY & MICROBIOLOGY

Q.P. Code: 786155

Time: Three hours

Maximum: 100 Marks

Section A and B must be answered in SEPARATE Answer Book

**SECTION A
(PATHOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Define shock. Write about the various types, pathophysiology and stages of shock.

II. Write notes on: (4 x 5 = 20)

1. Volkmann's Ischemia.
2. Occupational Lung diseases (Pneumoconiosis).
3. Duchenne muscular dystrophy.
4. Factors that influence Wound Healing.

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

1. Cardinal Signs of inflammation.
2. Salient features of Vitamin D deficiency.
3. List the clinical manifestations of Ischemic Heart Disease (Coronary Artery Disease).
4. Poliomyelitis.
5. Chemical carcinogens.

**SECTION B
(MICROBIOLOGY)**

I. Elaborate on: (1 x 20 = 20)

1. Describe the Genotypic variations in bacteria with special reference to drug resistance.

II. Write notes on: (4 x 5 = 20)

1. Antibodies.
2. Monoclonal antibody.
3. Koch's postulates and Koch's Phenomenon.
4. Antibiotic susceptibility test.

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

1. Anaphylaxis reaction.
2. Opportunistic infection.
3. Name two fungi causing respiratory Infections.
4. Factors affecting Immunity.
5. Name the serological test for syphilis.
