February 2012

[LA 6157] **Sub. Code: 6157**

BACHELOR OF OCCUPATIONAL THERAPY EXAMINATION

SECOND YEAR

Paper III– BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

Time: Three Hours **Maximum: 100 marks**

Answer ALL questions

I. Elaborate on: **(2X20=40)**

1. Describe the basic principles of joint design types of joints and joint function.
2. Define cardiac cycle. Describe the phases of cardiac cycle.

II. Write notes on: **(8X5=40)**

1. Mechanical advantages
2. Carrying angle and its significance
3. Vital capacity
4. Screw home mechanism of knee
5. Supination and pronation twist.
6. Determinants of gait
7. Artificial respiration.
8. Ligaments of the superior radio ulnar joint

III. Short Answers: **(10X2=20)**

1. Tennis elbow
2. Kyphosis
3. Calcaneal gait
4. Concurrent forces
5. motor unit
6. Reflex arc
7. Muscles of inspiration
8. Bunnel ‘s sign
9. Synergists
10. Q angle

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[LB 6157] **AUGUST 2012** **Sub. Code: 6157**

SECOND YEAR BOT EXAM

Paper – III BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: **786157**

Time: Three Hours **Maximum: 100 marks**

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

I. Elaborate on:	**Pages (Max.)**	**Time (Max.)**	**Marks (Max.)**
1. Describe the Biomechanics of wrist joint and its Contribution in hand function.	19	33	20
2. Define center of gravity and explain assessment of Center of gravity of human body.	19	33	20

II. Write Notes on:

1. Ligaments of knee joint.	3	8	5
2. Mechanism of Respiration.	3	8	5
3. Intrinsic muscles of foot.	3	8	5
4. Genurecurvatum.	3	8	5
5. Effects of aging on posture.	3	8	5
6. Hypertension	3	8	5
7. Lung compliance.	3	8	5
8. Function of Menisci.	3	8	5

III. Short Answers :

1. Synovial joint.	1	5	2
2. Active insufficiency.	1	5	2
3. MP joint capsule.	1	5	2
4. Newton’s Law of reaction.	1	5	2
5. Muscles of expiration.	1	5	2
6. Lordosis.	1	5	2
7. Ecceptric contraction.	1	5	2
8. Stability factors of shoulder joint.	1	5	2
9. Types of prehension.	1	5	2
10. Genu valgum.	1	5	2

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[LC 6157] **FEBRUARY 2013** **Sub. Code: 6157**

SECOND YEAR BOT EXAM

Paper III– BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

Time: Three Hours **Maximum: 100 marks**

(180 Min)

I. Elaborate on: **(2X20=40)**

1. Describe the structure and function of the Patellofemoral joint.
2. Explain the structure and properties of heart muscles.

II. Write Notes on: **(8X5=40)**

1. Classification of muscles
2. Atlanto axial joint mobility factors
3. Why should one use a cane ipsilaterally?
4. Functions of the meniscofemoral ligaments
5. Mobility factors of the hip joint
6. Components of stance phase
7. Normal E.C.G.
8. Reciprocal Innervation.

III. Short Answers : **(10X2=20)**

1. Arthrosis of hip joint
2. Lateral pelvic tilt
3. Mid Swing phase
4. Inversion of foot
5. Halux valgus
6. Metatarsal break
7. Intrinsic muscles of hand
8. Perturbation and its types
9. Ground reaction force
10. Angular velocity.

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[LD 6157] **AUGUST 2013** **Sub. Code : 6157**

SECOND YEAR BOT EXAM

Paper III – BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

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

I. Elaborate on: **(2x20 = 40)**

1. Explain the determinants of Gait .
2. Explain the biomechanics of the spine **.**

II. Write Notes on: **(8x5 = 40)**

1. Effects of posture on aging
2. Intrinsics muscles of hand
3. Types of joints
4. Hypertension
5. Passive and active insufficiency
6. Phases of the gait cycle
7. Function of menisci
8. Why should hand tools be made with a pistol grip **?**

III. Short Answers on: **(10x2 = 20)**

1. Trendelenburg's gait
2. Structures forming medial arch of the foot
3. Claw hand
4. Types of prehension
5. Types of planes
6. Collateral ligaments
7. Lung compliance
8. Cubitus valgus
9. Cadence
10. Mechanical advantage

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[LE 6157] **FEBRUARY 2014** **Sub. Code : 6157**

SECOND YEAR BOT EXAM
Paper III – BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY
Q.P. Code: 786157

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

I. Elaborate on: **(2x20 = 40)**

1. Describe in detail the structure and function of the extensor mechanism
2. Define cardiac cycle .Describe the phases of cardiac cycle.

II. Write Notes on: **(8x5 = 40)**

1. Annular pulleys and its function
2. Mechanism of respiration
3. Functions of Cardiac muscle
4. Flat foot
5. Oedema
6. Anterior pelvic tilt
7. Normal E.C.G
8. Biomechanics of spherical grip

III. Short Answers on: **(10x2 = 20)**

1. Spring ligament
2. Anatomic pulley
3. Anteversion of the femur
4. Screw home movement
5. Synaptic transmission
6. Q-angle
7. Rotator cuff
8. Alpha motor neuron
9. Torque
10. Kinetic chain

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[LF 6157] **AUGUST 2014** **Sub. Code : 6157**

SECOND YEAR BOT EXAM
PAPER III – BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

Time: Three Hours **Maximum: 100 marks**

I. Elaborate on: **(2x20=40)**

1. Define Center of Gravity. Explain the methods used to assess the center of gravity of the human body.
2. Describe in detail with diagram the biomechanics of the Knee Joint.

II. Write Notes on: **(8x5=40)**

1. Artificial respiration
2. Intrinsic muscles of the foot
3. Lung Volumes
4. Winging of the scapula
5. Volar plate structure and function
6. CMC joint of the Thumb
7. Exchange of gases
8. Genu recurvatum

III. Short Answers on: **(10x2=20)**

1. Gluteus Medius Gait
2. Patello femoral joint
3. Autonomic Nervous system
4. Carrying angle
5. Khyphosis
6. Trigger Finger
7. Interrosei muscle function
8. Swing Phase
9. Double stance
10. Ball and socket joint

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[LG 6157] **FEBRUARY 2015** **Sub. Code : 6157**

SECOND YEAR BOT EXAMINATION
PAPER III – BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

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

I. Elaborate on: **(2 x 20 = 40)**

1. Explain the biomechanics of shoulder joint abduction.
2. Describe the factors affecting respiration and effect of exercise on respiration.

II. Write notes on: **(8 x 5 = 40)**

1. Cubital tunnel syndrome
2. Anatomic pulleys
3. Postural control and factors which maintain its stability
4. Plantar arches
5. Lateral pelvic tilt
6. Function of the cruciate ligaments
7. Ligaments of the wrist joint
8. Types of muscle action

III. Short answers on: **(10 x 2 = 20)**

1. Hallux valgus
2. Housemaids knee
3. Nursemaids elbow
4. Popliteus muscle
5. Ankle synergy
6. Calcaneocubiod ligament
7. Unilateral stance
8. Types of grips
9. Coupling action
10. Waddling gait

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[LH 6157] **AUGUST 2015** **Sub. Code: 6157**

B.O.T. DEGREE EXAMINATION

SECOND YEAR

PAPER III – BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

Time : Three Hours **Maximum : 100 marks**

Answer ALL questions

I. Elaborate on: **(2 x 20 = 40)**

1. Classify the joints of the Human body. Describe each with suitable examples.
2. Explain the dynamic stabilization of the Gleno humeral joint

II. Write notes on: **(8 x 5 = 40)**

1. Ligaments of the knee joint.
2. Passive Insufficiency.
3. Swing phase of the gait cycle.
4. Normal ECG.
5. Scoliosis.
6. Neuro muscular junction.
7. Lung Volumes and Capacity.
8. Claw hand deformity.

III. Short Answers on: **(10 x 2 = 20)**

1. Third class levers.
2. Cardiac output.
3. Synergists.
4. Isometric muscle contraction.
5. Carrying angle.
6. Trigger finger.
7. Proprioception.
8. Trendel Berg Gait.
9. Genu recurvatum.
10. Breath Sounds.

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[LI 6157] FEBRUARY 2016 **Sub. Code : 6157**

SECOND YEAR BOT EXAMINATION
PAPER III – BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Classify the joints of the human body with suitable examples for each.

2. Describe and discuss ligaments of the knee joints and their functions.

II. Write notes on: **(8 x 5 = 40)**

1. Tenodesis grasp.
2. Types of levers in the human body.
3. Types of Power grip.
4. Flexors of the hip joint.
5. Costs of dynamic stability of the shoulder joint.
6. Types of Nerve fibres.
7. Lung volumes.
8. Functions of Frontal Lobe.

III. Short answers on: **(10 x 2 = 20)**

1. Claw hand deformity.
2. Cardiac Output.
3. Oedema.
4. Kinesthesia.
5. Tennis Elbow.
6. Ataxic Gait.
7. Hallux Valgus.
8. Hypotension.
9. Muscles involved in inspiration.
10. Trigger finger.

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[LJ 6157] AUGUST 2016 **Sub. Code : 6157**

SECOND YEAR BOT EXAMINATION
PAPER III – BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the phases of the Gait cycle. Describe pathologic gait patterns.

2. Describe the gliding mechanism of extrinsic finger flexors.

II. Write notes on: **(8 x 5 = 40)**

1. Reflex Action Reciprocal Innervation.
2. Describe the ligaments of the ankle.
3. Describe screw home mechanism of the knee.
4. Extensors of the hip joint.
5. Describe any one ball and socket joint in the human body.
6. Functions of the Frontal lobe.
7. Chemical control of respiration.
8. Isometric and Isotonic muscle contraction.

III. Short answers on: **(10 x 2 = 20)**

1. Nurse maids elbow.
2. Rotator cuff muscle.
3. Muscles of depression of shoulder joint.
4. Kyphosis.
5. Anatomic Pulley.
6. Rigidity.
7. Stroke volume.
8. Asthma.
9. Hypertension.
10. Functional position of hand.

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[LK 6157] FEBRUARY 2017 **Sub. Code : 6157**

BOT DEGREE EXAMINATION
SECOND YEAR
PAPER III – BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the different types of Prehension.

2. Describe the locking mechanism of the Knee joint.

II. Write notes on: **(8 x 5 = 40)**

1. Differentiate isometric and isotonic muscle contraction.
2. Injuries in the elbow joint.
3. Swing Phase of gait Cycle.
4. Types of Nerve Cells.
5. Action of the heart.
6. Artificial Respiration.
7. Muscles of Elevation of the shoulder joint.
8. Effects of Occupation and Recreation on Posture.

III. Short answers on: **(10 x 2 = 20)**

1. Anatomic pulleys.
2. Tri axial joints.
3. Rotator Cuff.
4. Systolic Blood Pressure.
5. Rigidity.
6. Bunnel's sign.
7. QRS complex.
8. Supinated foot.
9. Coxa Vara.
10. Synaptic junction.

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[LL 6157] AUGUST 2017 **Sub. Code : 6157**

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2013-2014 onwards)
SECOND YEAR
PAPER III – BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the functional deficits that would occur in the event of paralysis of any five-muscle acting on the shoulder joint.

2. Effect of Age, Pregnancy and Recreation on Posture.

II. Write notes on: **(8 x 5 = 40)**

1. Functions of Patella at knee joint.
2. Factors affecting muscle function.
3. Compression and distraction injury at Elbow joint.
4. Carpal Tunnel syndrome.
5. Abnormal Muscle tone.
6. Effect of exercise on respiration.
7. Stance phase of gait cycle.
8. Cardiac Cycle.

III. Short answers on: **(10 x 2 = 20)**

1. Spring Ligament.
2. Ankle joint motion.
3. Abductors of hip joint.
4. Lumbar pelvic rhythm.
5. Clonus.
6. Second class lever.
7. Closed packed versus loose packed position of the joints.
8. Deep sensations.
9. Tidal volume.
10. Bronchitis.

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

[LM 6157] FEBRUARY 2018 **Sub. Code : 6157**

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2013-2014 onwards)
SECOND YEAR
PAPER III – BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe Knee joint motion including locking and unlocking mechanism at the Knee joint.

2. Describe structure of the Elbow joint including joint capsule and ligaments.

II. Write notes on: **(8 x 5 = 40)**

1. Precision handling.
2. Bony abnormality of Femur.
3. Advantages of Corraco humeral arch.
4. Distance and time variables in gait.
5. Ankle dosriflexion and plantar flexion.
6. Effect of exercise on the heart.
7. Chemical control of respiration.
8. Superficial and deep sensation.

III. Short answers on: **(10 x 2 = 20)**

1. Sway envelope.
2. Mechanical advantage.
3. Arthrokinematics.
4. Differentiate scoliosis, kyphosis and lordosis.
5. Heart failure.
6. Asthma.
7. Stroke volume.
8. Sarcomere.
9. Genurecurvatum.
10. Muscles involved in reposition of thumb.

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

[LN 6157] AUGUST 2018 **Sub. Code : 6157**

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2010-2011 onwards)
SECOND YEAR
PAPER III – BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Define Gait. Describe the phases and determinants of Gait.

2. Describe the biomechanics of Elbow joint.

II. Write notes on: **(8 x 5 = 40)**

1. Ligaments of knee joint.
2. Joints in the shoulder complex.
3. Stability factors in the vertebral column.
4. Classes of levers in the human body.
5. Arches of foot.
6. Cane use in painful hip conditions.
7. Types of muscle contraction.
8. Sagittal plane analysis of sitting posture.

III. Short answers on: **(10 x 2 = 20)**

1. Define force.
2. Mechanical advantage.
3. Tenodesis grasp.
4. Passive tension.
5. Delayed onset of muscle soreness.
6. Lateral epicondylitis.
7. Wattenberg's sign.
8. Anti-deformity position.
9. Nursemaid's elbow.
10. Action of lumbricals.

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

[LO 6157] FEBRUARY 2019 **Sub. Code : 6157**

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2010-2011 onwards)
SECOND YEAR
PAPER III – BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the bio-mechanics of shoulder joint.

2. What is postural control? Describe the analysis of standing posture.

II. Write notes on: **(8 x 5 = 40)**

1. Define kinetics. Describe force & gravity vectors.
2. Describe Newton's Law's of motion.
3. Explain third class lever system with examples from human body.
4. Ligaments of hip joint.
5. Stability components of knee joint.
6. Joints in the ankle complex.
7. Kinematics and kinetics of elbow movement.
8. Anatomic pulleys.

III. Short answers on: **(10 x 2 = 20)**

1. Differentiate the action of soleus and gastrocnemius.
2. Differentiate scalar and vector quantities.
3. Force couple.
4. Synovial fluid.
5. Scoliosis and kyphosis.
6. Action of trapezes.
7. Congenital Talipes equino varus (CTEV).
8. Shunt and spurt muscles.
9. Functional position of hand.
10. Medial epicondylitis.

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

[LP 6157] AUGUST 2019 **Sub. Code : 6157**

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2010-2011 onwards)
SECOND YEAR
PAPER III – BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. What is lever? Describe the different lever systems with suitable examples. Describe the lever systems in the human body.

2. Describe the biomechanics of Knee joint.

II. Write notes on: **(8 x 5 = 40)**

1. Describe kinematic variables.
2. Lumbopelvic rhythm.
3. Length – tension relationship of a muscle.
4. Types of joints.
5. Shoulder joint movements and the muscles contribution.
6. Biomechanics of pronation and supination in forearm.
7. Intrinsic muscles of the hand.
8. Position of line of gravity in the lower extremity joints in sagittal plane analysis.

III. Short answers on: **(10 x 2 = 20)**

1. Sway – back posture.
2. Pes caves and pes planus.
3. Angle of torsion.
4. Menisci.
5. Inter-vertebral disc.
6. Cadence.
7. Passive insufficiency.
8. Quadriceps lag.
9. Muscles of knee extension.
10. Precision.

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

[LQ 6157] FEBRUARY 2020 **Sub. Code : 6157**

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2010-2011 onwards)
SECOND YEAR
PAPER III – BIOMECHANICS APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786157

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Define Center of gravity and explain assessment of Center of gravity of Human body.

2. Describe in detail the structure and function of the extensor mechanism of Fingers.

II. Write notes on: **(8 x 5 = 40)**

1. Screw home mechanism of knee.
2. Determinants of gait.
3. Atlanto-axial joint mobility factors.
4. Why should one use a cane ipsilaterally?
5. Reciprocal Innervations.
6. Why should hand tools be made with a pistol grip?
7. Mechanism of respiration.
8. Lung volumes and capacity.

III. Short answers on: **(10 x 2 = 20)**

1. Concurrent forces.
2. Bunnell's sign.
3. Newton's Law of reaction.
4. Stability factors of shoulder joint.
5. Lateral pelvic tilt.
6. Lung compliance.
7. Limb length discrepancy.
8. Spring ligament.
9. Coupling action.
10. Breath Sound.

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[LJ 6177] AUGUST 2016 **Sub. Code: 6177**

SECOND YEAR BOT EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
PAPER III – BIOMECHANICS, APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786177

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Explain in detail about the movement of Pelvis on the Femur with regard to Pelvic Tilts.
2. Define Joint? Mention and describe the various types of Synovial Joints.

II. Write notes on: **(8 x 5 = 40)**

1. Differentiate between kinetic and kinematics with examples.
2. Explain what is a plain and axis? Mention its types with examples?
3. What is Young's Modulus?
4. Describe the properties of the cardiac muscle.
5. What is reciprocal innervation?
6. What is artificial respiration?
7. Temporal components of gait.
8. What is a high arched foot?

III. Short answers on: **(10 x 2 = 20)**

1. Define Torque.
2. Define Anatomic pulley.
3. What is eccentric muscle contraction?
4. Define alpha motor neuron.
5. What is reverse action?
6. Function of intrinsic muscles of the hand.
7. Functional position of the hand.
8. Lateral pelvic tilting.
9. Open and closed kinematic chain.
10. Neuromuscular transmission.

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[LK 6177] FEBRUARY 2017 **Sub. Code: 6177**

BOT EXAMINATION
SECOND YEAR
(New Regulations for the candidates admitted from 2014-2015 onwards)
PAPER III – BIOMECHANICS, APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786177

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Explain the biomechanics of the Wrist complex.
2. Describe in details the biomechanics of Shoulder joint abduction.

II. Write notes on: **(8 x 5 = 40)**

1. Types of displacement on a rigid segment.
2. What is carrying angle and why females have large carrying angle than men?
3. Explain the role of the structures that contribute to the anterior stability of the knee joint.
4. Differentiate between active and passive motion.
5. Describe a volar plate and its function.
6. Name the arches of the foot and importance of medical arch.
7. When and why is a cane used Ipsilaerally?
8. Antalgic gait.

III. Short answers on: **(10 x 2 = 20)**

1. Claw hand.
2. Oedema.
3. Double support.
4. Define moment arm.
5. Define Q angle.
6. Coxa Valga.
7. Ground Reaction Force.
8. What is optimal posture?
9. Khyphosis.
10. Hypertension.

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[LL 6177] AUGUST 2017 **Sub. Code: 6177**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER III – BIOMECHANICS, APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786177

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the structure and function of the Knee joint.
2. Define Gait and determinants of Gait.

II. Write notes on: **(8 x 5 = 40)**

1. What are properties of muscle?
2. Describe a normal E.C.G.
3. Describe the mechanics of respiration.
4. Differentiate between agonist and antagonist muscle. Give example of their actions during an activity.
5. Explain the structure of the extensor expansion.
6. Methods of artificial respiration.
7. Tarsometatarsal joint function.
8. Anterior cruciate ligament injury.

III. Short answers on: **(10 x 2 = 20)**

1. Genu recurvatum.
2. Lung compliance.
3. Hypertonocity.
4. Diarthrodial joints.
5. Mechanical advantage in third class lever.
6. Define force.
7. Synergist muscle.
8. Tidal volume.
9. Define conductivity as a property of cardiac muscle.
10. Which is the structure responsible for gas exchange in the lungs?

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

[LM 6177] FEBRUARY 2018 **Sub. Code: 6177**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER III – BIOMECHANICS, APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786177

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the structure and function of thumb musculature and its role in hand function.

2. Describe the structure and function of vertebral column.

II. Write notes on: **(8 x 5 = 40)**

1. Effects of gravity on posture.
2. Characteristics of motor unit.
3. Nervous control of respiration.
4. Pelvic tilts.
5. Inversion and eversion of foot.
6. Functions of the arches.
7. Carrying angle and its significance.
8. Effects of exercise on respiration.

III. Short answers on: **(10 x 2 = 20)**

1. Gait.
2. Grasp.
3. Voluntary control.
4. Lumbricals.
5. Hyaline cartilage.
6. Reaction forces.
7. Properties of connective tissue.
8. Reflex arc.
9. Muscles of inspiration.
10. Angular velocity.

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

[LN 6177] AUGUST 2018 **Sub. Code: 6177**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER III – BIOMECHANICS, APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786177

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Phases of gait cycle.

2. Dynamic stabilization of the Glenohumeral joint.

II. Write notes on: **(8 x 5 = 40)**

1. Functional position of the hand.
2. Palmar arches.
3. Scoliosis.
4. Scapulo-humeral rhythm.
5. Power grip.
6. Coxa Varum and Coxa Valgum.
7. Ideal posture.
8. Lung volume and capacities.

III. Short answers on: **(10 x 2 = 20)**

1. Waddling gait.
2. Lateral epicondylitis.
3. Annular pulleys.
4. Nurse maid elbow.
5. Entheses.
6. Stress.
7. Concentric contraction.
8. The motor unit.
9. Bucket handle movement of thorax.
10. Closed packed position of elbow.

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

[LO 6177] FEBRUARY 2019 **Sub. Code: 6177**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER III – BIOMECHANICS, APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786177

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Analysis of posture in the sagittal plane.

2. Define cardiac cycle. Describe the phases of cardiac cycle.

II. Write notes on: **(8 x 5 = 40)**

1. Carpal tunnel syndrome.
2. Precision handling.
3. Alpha motor neuron.
4. Movements of the ribcage.
5. Determinants of gait.
6. Contractile unit of muscle.
7. Passive insufficiency.
8. Properties of ventilatory muscles.

III. Short answers on: **(10 x 2 = 20)**

1. Anatomic pulley.
2. The motor unit.
3. Nutation of the Sacrum.
4. Effects of immobilization on muscle structure.
5. Pad to pad prehension.
6. Circumductory gait.
7. Locked position of knee.
8. Flat foot.
9. Anterior pelvic tilt.
10. Reverse action.

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

[LP 6177] AUGUST 2019 **Sub. Code: 6177**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER III – BIOMECHANICS, APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786177

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. What is Kinetics and Kinematics? Describe in detail the Kinematic variables.

2. Explain the biomechanics of hip joint.

II. Write notes on: **(8 x 5 = 40)**

1. What are all the muscles that cross both hip and knee joint?
2. Write the contribution of scapula for the shoulder movement.
3. Explain patella as an anatomic pulley.
4. Phases of gait cycle.
5. Draw elbow joint.
6. Describe the prehension skills in the hand.
7. Describe the role of menisci in the knee joint.
8. Intervertebral disc prolapse.

III. Short answers on: **(10 x 2 = 20)**

1. Active insufficiency.
2. Action of lumbricals.
3. Gravity vector.
4. Newton's second law.
5. Function of synovial fluid.
6. Saddle joint.
7. Contractile unit of a skeletal muscle.
8. Define lever.
9. Types of equilibrium.
10. Center of gravity.

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

[LQ 6177] FEBRUARY 2020 **Sub. Code: 6177**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER III – BIOMECHANICS, APPLIED ANATOMY AND APPLIED PHYSIOLOGY

Q.P. Code: 786177

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Movements of the Ribcage. Artificial respiration.

2. Determinants of Gait.

II. Write notes on: **(8 x 5 = 40)**

1. Primary curves of the vertebral column.
2. Coupling.
3. Squat lift Vs Stoop lift.
4. Annular pulleys.
5. Scapulo-humeral rhythm.
6. Types of muscle contraction.
7. Cross bridges.
8. Genu Valgum and Varum.

III. Short answers on: **(10 x 2 = 20)**

1. Hammer toe.
2. Closed packed position of the elbow.
3. Trigger finger.
4. Compliance.
5. Nucleus pulposus.
6. Pump-handle movement.
7. Second-class lever.
8. Strain.
9. Hand to knee gait.
10. Limb Length Discrepancy (LLD).

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

[BOT 0921] **SEPTEMBER 2021** **Sub. Code: 6177**
(FEBRUARY 2021 EXAM SESSION)

BOT DEGREE EXAMINATION
SECOND YEAR - (Regulations for the candidates admitted from 2014-2015 onwards)
PAPER III – BIOMECHANICS, APPLIED ANATOMY AND APPLIED PHYSIOLOGY
Q.P. Code : 786177

Time : Three hours **Answer ALL Questions** **Maximum : 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the classification of Joints in the human body.

2. Describe the biomechanics of Knee joint. Explain the structures that contribute for the stability of Knee joint.

II. Write notes on: **(8 x 5 = 40)**

1. Describe biomechanics.
2. How does center of gravity affect balance?
3. Describe the properties of skeletal muscle.
4. Lung volumes and capacities.
5. Describe the structure of lumbar vertebrae.
6. Describe the ligaments around the hip joint.
7. Write the deformities occur at the ankle joint.
8. Provide an example of third class lever system in body and explain.

III. Short answers on: **(10 x 2 = 20)**

1. Define Inertia.
2. Force couple.
3. Tail bone.
4. Carrying angle in females.
5. Functional position of hand.
6. Define flexion.
7. Action of latissimus dorsi.
8. Carpal tunnel syndrome.
9. Painful arc syndrome.
10. Coxa valga.

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

[BOT 0122] JANUARY 2022 Sub. Code: 6177
(AUGUST 2021 EXAM SESSION)

BACHELOR OF OCCUPATIONAL THERAPY DEGREE COURSE
SECOND YEAR - (Regulations for the candidates admitted from 2014-2015 onwards)
PAPER III – BIOMECHANICS, APPLIED ANATOMY AND APPLIED PHYSIOLOGY
Q.P. Code : 786177

Time : Three hours **Answer ALL Questions** **Maximum : 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe in detail about Carpometacarpal joints of fingers, Range of motion & its contribution to Palmar arch system.

2. Write in detail about Properties of mixed nerves.

II. Write notes on: **(8 x 5 = 40)**

1. Muscles in first & second class lever system.
2. Explain Stress & strain.
3. Write about Arthrokinematics.
4. Active insufficiency.
5. Explain Young's Modulus.
6. Motions of the Scapula.
7. Motions of the pelvis on the Femur.
8. Types of displacement on a rigid segment

III. Short answers on: **(10 x 2 = 20)**

1. Creep.
2. Tidal volume.
3. Legg –Calve-Perthes Disease.
4. Mention any 2 factors affecting active Muscle tension.
5. What is Volar Intercalated Segmental Instability.
6. Define moment arm.
7. Coxa Vara.
8. Housemaid's knee.
9. Angular velocity.
10. What is slipped Capital Femoral Epiphysis.

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August 2011

[KZ 6159] **Sub. Code : 6159**

BACHELOR OF OCCUPATIONAL THERAPY EXAMINATION

SECOND YEAR

Paper V– CLINICAL NEUROLOGY

Q.P. Code : 786159

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

ANSWER ALL QUESTIONS

I. LONG ESSAYS **(2X20=40)**

1. Define STROKE. Discuss in detail about the Etiology, clinical features Investigation and Management of STROKE.

2. Define SPINAL SHOCK. Discuss in detail about the clinical features, Assessment and management of C6 Quadriparesis.

II. SHORT NOTES **(8X5=40)**

1. Internal Capsule
2. Clinical features of Tuberculous Meningitis
3. Trigeminal Neuralgia
4. Leprous Neuritis
5. Myasthenia Gravis
6. Gait Abnormality in Parkinsonism
7. Brain Tumor.
8. Spina bifida.

III. SHORT ANSWERS **(10X2=20)**

1. Meralgia Parasthetica
2. Muscle Spindle
3. Saddle Anaesthesia
4. Gower's Sign
5. Saturday Night Palsy
6. Dopamine
7. L5 Radiculopathy
8. Visual Agnosia
9. CSF Findings in Guillain – Barre Syndrome
10. Dementia.

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February 2012

[LA 6159] **Sub. Code : 6159**

BACHELOR OF OCCUPATIONAL THERAPY EXAMINATION

SECOND YEAR

Paper V– CLINICAL NEUROLOGY

Q.P. Code : 786159

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

Answer ALL questions

I. Elaborate on: **(2X20=40)**

1. Describe the clinical features, Investigation, Treatment and Occupational therapy measure of Guillain –Barre Syndrome.

2. Enumerate the difference between SPASTICITY and RIGIDITY. Discuss about the clinical features, diagnosis and management of Parkinson disease.

II. Write notes on: **(8X5=40)**

1. Visual Pathway
2. Tests for Cerebellar Function
3. Meningomyelocele
4. Pathophysiology of STROKE
5. Central Cord Syndrome
6. Syringomyelia
7. Duchenne Muscular Dystrophy.
8. Carpal Tunnel Syndrome.

III. Short Answers: **(10X2=20)**

1. Amyotrophic Lateral Sclerosis
2. Atonic Bladder
3. Name the POLIO Viruses
4. C6 Myotome
5. Apraxia
6. Ulnar Claw Hand
7. Hemineglect
8. Tonic Neck Reflex
9. High Stepping Gait
10. Neuro Transmitter.

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[LB 6159] **AUGUST 2012** **Sub. Code : 6159**

SECOND YEAR BOT EXAM

Paper – V CLINICAL NEUROLOGY

***Q.P. Code :* 786159**

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

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

I. Elaborate on:	**Pages (Max.)**	**Time (Max.)**	**Marks (Max.)**
1. Write briefly about Parkinsonian syndromes and its management.	19	33	20
2. Write about neurological assessment and classification of spinal cord injury and the management of a patient with paraplegia at T12.	19	33	20
II. Write Notes on:			
1. Thoracic outlet syndrome.	3	8	5
2. Visual pathway.	3	8	5
3. Foot drop.	3	8	5
4. Spina bifida.	3	8	5
5. Cervical spondyltic myelopathy.	3	8	5
6. Hydrocephalus.	3	8	5
7. Transverse myelitis.	3	8	5
8. Gait abnormalities.	3	8	5
III. Short Answers :			
1. Dopamine.	1	5	2
2. Spinal reflex.	1	5	2
3. Bell’s palsy.	1	5	2
4. Meralgia paraesthetica.	1	5	2
5. Internal capsule.	1	5	2
6. Neuromuscular junction.	1	5	2
7. Hemi-neglect.	1	5	2
8. Choroid plexus.	1	5	2
9. Rigidity.	1	5	2
10. Visual agnosia.	1	5	2

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[LC 6159] **FEBRUARY 2013** **Sub. Code : 6159**

SECOND YEAR BOT EXAM

Paper – V CLINICAL NEUROLOGY

***Q.P. Code :* 786159**

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

(180 Min)

I. Elaborate on: **(2X20=40)**

1. Define MOTOR UNIT. Discuss in detail about the clinical features, diagnosis and Management of Motor Neuron Disease.
2. Classify MYOPATHY. Describe the clinical features, diagnosis and management of Duchenne Muscular Dystrophy.

II. Write Notes on: **(8X5=40)**

1. Bell's Palsy.
2. Transverse Myelitis.
3. Theories of Pain.
4. Athetoid Cerebral Palsy.
5. Status epilepticus.
6. Total Claw Hand.
7. Automatic Bladder.
8. Post Polio Syndrome.

III. Short Answers : **(10X2=20)**

1. Brain Stem.
2. Descending Tract.
3. Grades of Spasticity.
4. Festinant Gait.
5. Dystrophin.
6. Broca's Aphasia.
7. Stereognosis.
8. Botulinum Toxin.
9. Friedrich's Ataxia.
10. Pseudo Bulbar Palsy.

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[LD 6159] **AUGUST 2013** **Sub. Code : 6159**

SECOND YEAR BOT EXAM

Paper V – CLINICAL NEUROLOGY

Q.P. Code: 786159

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

I. Elaborate on: **(2x20 = 40)**

1. Clinical features, causes, complications, and treatment of right middle cerebral artery occlusion.
2. Pathophysiology, clinical presentation, and treatment of Parkinson's disease.

II. Write Notes on: **(8x5 = 40)**

1. Ataxic cerebral palsy
2. Syringomyelia
3. Foot drop
4. Ducchenne's muscular dystrophy
5. Neurofibroma
6. Conus medullaris
7. Brachial plexus injuries
8. Vertigo

III. Short Answers on: **(10x2 = 20)**

1. Acetylcholine receptor
2. Apraxia
3. Immediate memory
4. Fifth cranial nerve
5. Plantar reflex
6. Status epilepticus
7. Titubation
8. Hemianopia
9. Vibration sense
10. Pia mater

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[LE 6159] **FEBRUARY 2014** **Sub. Code : 6159**

SECOND YEAR BOT EXAM

Paper V – CLINICAL NEUROLOGY

Q.P. Code: 786159

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

I. Elaborate on: **(2x20 = 40)**

1. Clinical features, causes, complications, and treatment of basilar artery occlusion.
2. Pathophysiology, clinical presentation, complications and treatment of myasthenia gravis.

II. Write Notes on: **(8x5 = 40)**

1. Spina bifida occulta
2. Complications of pyogenic meningitis
3. Posterior columns
4. Anterior horn cell
5. Meningioma
6. Cervical disc disease
7. Arnold Chiari malformation
8. Median nerve entrapment

III. Short Answers on: **(10x2 = 20)**

1. Cauda equina
2. Posterior aphasia
3. Recent memory
4. Fourth cranial nerve
5. Tone
6. Complex partial seizure
7. Sciatic nerve injury
8. Circumduction gait
9. Deep tendon jerk
10. Dura mater

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[LF 6159] **AUGUST 2014** **Sub. Code : 6159**

SECOND YEAR BOT EXAM
PAPER V – CLINICAL NEUROLOGY

Q.P. Code: 786159

Time: Three Hours **Maximum: 100 marks**

I. Elaborate on: **(2x20=40)**

1. Clinical features, causes, complications, and treatment of left internal carotid artery occlusion.
2. Pathophysiology, clinical presentation, complications and treatment of Guillain Barre syndrome.

II. Write Notes on: **(8x5=40)**

1. Hydrocephalus
2. Complications of tubercular meningitis
3. Joint position sense
4. Amyotrophic lateral sclerosis
5. Glioma
6. Lumbar disc disease
7. Atlantoaxial dislocation
8. Cross section of spinal cord

III. Short Answers on: **(10x2=20)**

1. Neuromuscular junction
2. Anterior aphasia
3. Remote memory
4. Sixth cranial nerve
5. Differences between rigidity and spasticity
6. Absence seizure
7. Neuropraxia
8. Gower's sign
9. Dysdiadochokinesia
10. Arachnoid mater

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[LG 6159] **FEBRUARY 2015** **Sub. Code: 6159**

SECOND YEAR BOT EXAMINATION
PAPER V – CLINICAL NEUROLOGY

Q.P. Code: 786159

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

I. Elaborate on: **(2 x 20 = 40)**

1. Clinical features, diagnosis, pathophysiology and treatment of Parkinson's Disease, specify the recent advances in the treatment.
2. Causes, clinical features, investigations and treatment of Acute transverse myelitis.

II. Write notes on: **(8 x 5 = 40)**

1. Ulnar neuropathy
2. Neurogenic Bladder
3. Acute Vestibulitis
4. Nodes of Ranvier
5. Dystonia
6. Neuro fibroma
7. Anterior spinal Artery
8. Transient Global Amnesia

III. Short answers on: **(10 x 2 = 20)**

1. Seventh cranial nerve
2. Fourth ventricle
3. Pupillary reflex
4. Classification of nerve injuries
5. Dysarthria
6. Rigidity
7. Frontal lobe epilepsy
8. Ataxic gait
9. Spinal motor neuron
10. Taste

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[LH 6159] **AUGUST 2015** **Sub. Code: 6159**

B.O.T. DEGREE EXAMINATION

SECOND YEAR

PAPER V – CLINICAL NEUROLOGY

Q.P. Code: 786159

Time : Three Hours **Maximum : 100 marks**

Answer ALL questions

I. Elaborate on: **(2 x 20 = 40)**

1. Clinical features, rising incidence, pathophysiology, investigation and treatment of multiple sclerosis in Indian subcontinent.
2. Cause, clinical features, complications & management of Sub Archnoid Hemorrhage.

II. Write notes on: **(8 x 5 = 40)**

1. Complications of Bacterial Meningitis.
2. Cerebello pontine angle tumors.
3. Saturday night palsy.
4. Non Epileptic Attack Disorders (NEAD).
5. Circle of Willis.
6. Symptoms and signs of cauda equine lesions.
7. Cervical spondylotic myelopathy.
8. Difference between upper motor neuron and lower motor neuron lesions.

III. Short Answers on: **(10 x 2 = 20)**

1. Olfaction.
2. Dyslexia.
3. Vagal nerve.
4. Tremor.
5. Automatism.
6. Myoclonus.
7. Motor cortex.
8. Rombergism.
9. ”Papez Circuit”.
10. Cremastric reflex.

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[LI 6159] FEBRUARY 2016 **Sub. Code: 6159**

SECOND YEAR BOT EXAMINATION
PAPER V – CLINICAL NEUROLOGY

Q.P. Code: 786159

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Clinical presentations, complications and management of cervical spine injury.
2. Definition, classification and complications of Epilepsy.

II. Write notes on: **(8 x 5 = 40)**

1. Trigeminal neuralgia.
2. Pott's spine.
3. Radial nerve.
4. Poliomyelitis.
5. Quadriplegia.
6. Myasthenia Gravis.
7. Pyramidal Tract.
8. Vertebral Artery.

III. Short answers on: **(10 x 2 = 20)**

1. Sixth Cranial nerve.
2. Spasticity.
3. Horner's Syndrome.
4. Posterior column of spinal cord.
5. Lumbago.
6. Charcot's joint.
7. Wasting of muscles.
8. Slurred speech.
9. Accommodation Reflex.
10. Paraesthesia.

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[LJ 6159] AUGUST 2016 **Sub. Code: 6159**

SECOND YEAR BOT EXAMINATION
PAPER V – CLINICAL NEUROLOGY

Q.P. Code: 786159

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Definition, clinical features and management of Cerebral Palsy.

2. Symptoms, signs, progression and management of Guillain Barre Syndrome.

II. Write notes on: **(8 x 5 = 40)**

1. Carpel tunnel syndrome.
2. Erb's palsy.
3. Lateral popliteal nerve.
4. Myopathy.
5. Functions of brain stem.
6. Peripheral neuropathy.
7. Extra pyramidal system.
8. Cervical Myeloradiculopathy.

III. Short answers on: **(10 x 2 = 20)**

1. Fourth Cranial Nerve.
2. Dysphonia.
3. Costochondritis.
4. Strabismus.
5. Internal capsule.
6. Transient Ischaemic Attack.
7. Vertigo.
8. Nerve Deafness.
9. Hyperaesthesia.
10. Fasciculation of muscles.

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[LK 6159] FEBRUARY 2017 **Sub. Code: 6159**

BOT DEGREE EXAMINATION
SECOND YEAR
PAPER V – CLINICAL NEUROLOGY

Q.P. Code: 786159

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. The clinical features and management of Cervical Spondylitis.

2. The clinical features and management of Hydrocephalus.

II. Write notes on: **(8 x 5 = 40)**

1. Blood supply of brain stem.
2. Neurological control of urinary bladder.
3. Pyramidal tract.
4. Functions of cerebellum.
5. Dementia.
6. Diabetic Neuropathy.
7. Rehabilitation of hemiplegic patient.
8. Clinical features in head injury.

III. Short answers on: **(10 x 2 = 20)**

1. Bell's palsy.
2. Guillain Barre's syndrome.
3. Tuberculoma.
4. Trigeminal neuralgia.
5. Waddling gait.
6. Clinical features in peripheral neuropathy.
7. Higher cortical functions.
8. Erb's palsy.
9. Optic nerve.
10. Management of myopathies.

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[LJ 6179] AUGUST 2016 **Sub. Code: 6179**

SECOND YEAR BOT EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
PAPER V – CLINICAL NEUROLOGY

Q.P. Code: 786179

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Cortical venous sinus thrombosis – clinical manifestations and its management.

2. Guillain-Barre syndrome - clinical manifestations and its management.

II. Write notes on: **(8 x 5 = 40)**

1. Duchenne muscular dystrophy.
2. Normal pressure Hydrocephalus.
3. Signs and symptoms of cerebellar dysfunction.
4. Low back pain.
5. Types of aphasia and its clinical features.
6. Tuberculous Menigitis.
7. Amyotropic lateral sclerosis.
8. Syringomyelia.

III. Short answers on: **(10 x 2 = 20)**

1. Ataxia.
2. Babinski sign.
3. Lhermitte’s sign.
4. Chorea.
5. Cog wheel rigidity.
6. Tremors.
7. Fasciculations.
8. Phantom pain.
9. Meralgia paresthetica.
10. Hemifascial spasm.

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[LK 6179] FEBRUARY 2017 **Sub. Code: 6179**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER V – CLINICAL NEUROLOGY

Q.P. Code: 786179

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Define Stroke. Write in detail about the clinical findings in acute ischemic stroke and its management.

2. What is Myasthenia Gravis? Discuss in detail regarding clinical presentation and etiology of Myasthenia Gravis.

II. Write notes on: **(8 x 5 = 40)**

1. Romberg sign and its clinical implications.
2. Spina Bifida.
3. Clinical features, etiology of sub acute combined degeneration.
4. Define epilepsy and write short notes on clinical manifestations of epilepsy.
5. Clinical features of Parkinson's disease.
6. Neurofibromatosis.
7. Myopathy.
8. Thoracic outlet syndrome.

III. Short answers on: **(10 x 2 = 20)**

1. Spasticity.
2. Trigeminal neuralgia.
3. Circumduction gait.
4. Gower's sign.
5. Absence seizures.
6. Bell's palsy.
7. Carpal tunnel syndrome.
8. Horner's syndrome.
9. Diabetic peripheral neuropathy.
10. Third cranial nerve palsy.

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[LL 6179] AUGUST 2017 **Sub. Code: 6179**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER V – CLINICAL NEUROLOGY

Q.P. Code: 786179

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Define Epilepsy, classification, pathophysiology and management.

2. Parkinson's disease, aetiology, clinical feature and managements.

II. Write notes on: **(8 x 5 = 40)**

1. Cerebral Palsy.
2. Syringomyelia.
3. Guillain-Barre Syndrome.
4. Poliomyelitis.
5. Peripheral Neuropathy.
6. Myasthenia Gravis.
7. Treatment for TB Spine.
8. Lower Motor Neuron Diseases.

III. Short answers on: **(10 x 2 = 20)**

1. Two Bladder disorder.
2. Draw circle of Willis.
3. Clinical feature of viral Meningitis.
4. Bell's Palsy.
5. Clonus.
6. Two intra cranial tumours.
7. Foot drop.
8. Clinical features of Dementia.
9. Clinical features of multiple sclerosis.
10. Management of spinal cord injuries.

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

[LM 6179] FEBRUARY 2018 **Sub. Code: 6179**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER V – CLINICAL NEUROLOGY

Q.P. Code: 786179

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Cerebrovascular accidents-causes, clinical features and management.
2. Spinothalamic pathway and its functions.

II. Write notes on: **(8 x 5 = 40)**

1. TB. Meningitis-CSF findings.
2. Basal ganglion and its function.
3. Erb's palsy.
4. Carpal tunnel syndrome.
5. Foot drop.
6. Urinary bladder inervation.
7. Sciatica.
8. Babinski sign.

III. Short answers on: **(10 x 2 = 20)**

1. Bells palsy.
2. Optic nerve examination.
3. Guillain Baree syndrome.
4. Vestibular nerve function.
5. Types of Gaits.
6. Frontal lobe function.
7. Rinne Test.
8. E.E.G.
9. Syncope.
10. Neck stiffness.

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

[LN 6179] AUGUST 2018 **Sub. Code: 6179**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER V – CLINICAL NEUROLOGY

Q.P. Code: 786179

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Classify Cerebral Palsy. Give an account of the aetiology, clinical features and management.

2. Discuss the causes, clinical features, differential diagnosis and management of Bell's Palsy.

II. Write notes on: **(8 x 5 = 40)**

1. Physiology of muscle contraction and movements.
2. Neurogenic Bladder.
3. Clinical features and management of Poliomyelitis.
4. Circle of Willis.
5. Dementia.
6. Jacksonian seizure.
7. Management of Syringomyelia.
8. Anatomy and Assessment of Seventh Cranial Nerve.

III. Short answers on: **(10 x 2 = 20)**

1. Plantar reflex.
2. Coverings of brain.
3. Meningioma.
4. Spasticity.
5. Gower's Sign.
6. Apraxia.
7. Pupillary Reflex.
8. Muscle Power Grading.
9. Intention Tremors.
10. Brachial Plexus.

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

[LO 6179] FEBRUARY 2019 **Sub. Code: 6179**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER V – CLINICAL NEUROLOGY

Q.P. Code: 786179

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the clinical presentation and first aid management for head injury .Add a note on management of Sequelae of head injury patient.

2. Describe in detail about the clinical features and management of cervical spondylitis.

II. Write notes on: **(8 x 5 = 40)**

1. Cerebro Spinal Fluid (CSF).
2. Automatic Bladder.
3. Guillain Barre Syndrome.
4. Diabetic Neuropathy.
5. Management of Duchenne Muscular Dystrophy.
6. Post Polio Syndrome.
7. Pain gate theory.
8. Management of hydrocephalus.

III. Short answers on: **(10 x 2 = 20)**

1. Ataxic Gait.
2. Rombergs Sign.
3. Brocas Area.
4. Rigidity.
5. Knuckle bender splint.
6. Muscle cramp.
7. Frontal lobe syndrome.
8. Transient Ischemic Attack.
9. Memory.
10. Bells Phenomenon.

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

[LP 6179] AUGUST 2019 **Sub. Code: 6179**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER V – CLINICAL NEUROLOGY

Q.P. Code: 786179

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Discuss Intracranial Haemorrhage, with reference to etiology, location of bleeding, clinical manifestations and complications.

2. Discuss clinical manifestations, pathophysiology and treatment of various types of Dementia.

II. Write notes on: **(8 x 5 = 40)**

1. Basilar invagination.
2. Herpes simplex encephalitis.
3. Foot drop.
4. Duchenne's muscular dystrophy.
5. Spinothalamic tract.
6. Sensory ataxia.
7. Parkinsonian gait.
8. Complex partial Seizures.

III. Short answers on: **(10 x 2 = 20)**

1. Middle cerebral artery.
2. Fifth cranial nerve.
3. Spasticity.
4. Define amnesia.
5. Glioma.
6. Knee jerk.
7. White matter of brain.
8. Tension types headache.
9. Mycobacterium tuberculosis.
10. Functions of temporal lobe.

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

[LQ 6179] FEBRUARY 2020 **Sub. Code: 6179**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER V – CLINICAL NEUROLOGY

Q.P. Code: 786179

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the classification and detailed rehabilitative programmes for the Cerebro Vascular accidents.

2. Describe in detail about the clinical features and management of Motor Neuron Disease.

II. Write notes on: **(8 x 5 = 40)**

1. Thoracic outlet syndrome.
2. Function of cerebellum.
3. Management of Parkinson Disease.
4. Gower's Sign.
5. Spinal Arachnoiditis.
6. Dystonia.
7. Complications and management of bacterial meningitis.
8. Erb's Palsy.

III. Short answers on: **(10 x 2 = 20)**

1. Neuromuscular junction.
2. Festinant Gait.
3. Hypotonia.
4. Glasgow coma scale.
5. Agnosia.
6. Define muscle power.
7. Kernig's sign.
8. Ptosis.
9. Motor supply of median nerve.
10. Antiepileptic drugs.

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

[LR 1220] DECEMBER 2020 Sub. Code: 6179
(AUGUST 2020 EXAM SESSION)

BOT DEGREE EXAMINATION
SECOND YEAR
(New regulations for the candidates admitted from 2014-2015 onwards)
PAPER V – CLINICAL NEUROLOGY
Q.P. Code: 786179

Time: Three hours **Answer ALL Questions** **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Discuss the etiology, manifestation and types of Cerebral Palsy.

2. What are the clinical manifestations of Parkinson's disease? Discuss the pathophysiology and treatment.

II. Write notes on: **(8 x 5 = 40)**

1. Syringomyelia.
2. Poliomyelitis.
3. Carpal Tunnel syndrome.
4. Myasthenia gravis.
5. Proprioception.
6. Cerebellar ataxia.
7. Spastic gait.
8. Absence Epilepsy.

III. Short answers on: **(10 x 2 = 20)**

1. Basilar artery.
2. Seventh cranial nerve.
3. Festinating Gait.
4. Define aphasia.
5. Meningioma.
6. Gower sign.
7. Define seizure.
8. Migraine.
9. Mycobacterium leprae.
10. Functions of Occipital lobe.

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

[BOT 0921] **SEPTEMBER 2021** **Sub. Code: 6179**
(FEBRUARY 2021 EXAM SESSION)

BOT DEGREE EXAMINATION
SECOND YEAR - (Regulations for the candidates admitted from 2014-2015 onwards)
PAPER V – CLINICAL NEUROLOGY
Q.P. Code : 786179

Time : Three hours **Answer ALL Questions** **Maximum : 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Discuss clinical manifestations, pathophysiology, management of left middle Cerebral artery territory Ischemic stroke.

2. Discuss clinical manifestations, pathophysiology and management of multiple sclerosis.

II. Write notes on: **(8 x 5 = 40)**

1. Atlanto – axial dislocation.
2. Varicella Zoster virus and Herpes Zoster.
3. Wrist drop.
4. Dystrophinopathy.
5. Pyramidal tract.
6. Wilson's disease.
7. Festinating gait.
8. Generalized seizures.

III. Short answers on: **(10 x 2 = 20)**

1. Posterior cerebral artery.
2. Eighth cranial nerve.
3. Cog wheel rigidity.
4. Define Anomia.
5. Arachnoiditis.
6. Ankle clonus.
7. Corpus callosum.
8. Vertigo.
9. Define encephalitis.
10. Functions of parietal lobe.

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

[BOT 0122] JANUARY 2022 Sub. Code: 6179
(AUGUST 2021 EXAM SESSION)

BACHELOR OF OCCUPATIONAL THERAPY DEGREE COURSE
SECOND YEAR - (Regulations for the candidates admitted from 2014-2015 onwards)
PAPER V – CLINICAL NEUROLOGY
Q.P. Code : 786179

Time : Three hours **Answer ALL Questions** **Maximum : 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Cerebrovascular accidents-causes, clinical features and management.

2. What is Myasthenia Gravis? Discuss in detail regarding clinical presentation and etiology of Myasthenia Gravis.

II. Write notes on: **(8 x 5 = 40)**

1. Spina Bifida.
2. Amyotrophic lateral sclerosis.
3. Basal ganglion and it's function.
4. Guillain- Barre syndrome.
5. Circle of wills.
6. Third cranial nerve palsy.
7. Degenerative disorders.
8. Sciatica.

III. Short answers on: **(10 x 2 = 20)**

1. Dysdiadochokinesia.
2. Ulnar neuropathy.
3. Neurogenic Bladder.
4. Bell's palsy.
5. Facial nerve.
6. Cog wheel rigidity.
7. Gower's sign.
8. Frontal lobe.
9. Brachial plexus.
10. Wrist drop.

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February 2012

[LA 6158] **Sub. Code: 6158**

BACHELOR OF OCCUPATIONAL THERAPY EXAMINATION

SECOND YEAR

Paper IV– CLINICAL ORTHOPAEDICS AND RADIO DIAGNOSIS

Q.P. Code: 786158

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

Answer ALL questions

I. Elaborate on: **(2 x 20 = 40)**

1. Outline the etiopathology, clinical features, complications of rheumatoid arthritis. How do you manage rheumatoid hand?
2. Outline the clinical features, complications and management of Brachial plexus injuries. Add a note on reconstructive surgery.

II. Write notes on: **(8 x 5 = 40)**

1. Radial club hand
2. Osteo sarcoma
3. Colle's fracture
4. Fracture neck of femur
5. Pes planus
6. Radiological features of spinal tuberculosis
7. Reccurent dislocation of shoulder
8. MRI findings in intervertebral disc prolapse

III. Short Answers: **(10 x 2 = 20)**

1. Difference between dislocation and sublexation
2. X-Ray findings in rheumatoid arthritis knee
3. Cobb's angle
4. Galeazzi fracture dislocation
5. Common causes of Genu recurvatum
6. Bennett's fracture dislocation
7. Complications of amputation
8. X-Ray findings in Giant Cell Tumour
9. Phalen's test
10. Mallet finger

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[LB 6158] **AUGUST 2012** **Sub. Code: 6158**

SECOND YEAR BOT EXAM

Paper – IV CLINICAL ORTHOPAEDICS AND RADIO DIAGNOSIS

Q.P. Code: **786158**

Time: Three Hours **Maximum: 100 marks**

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

I. Elaborate on:	**Pages (Max.)**	**Time (Max.)**	**Marks (Max.)**
1. Outline the clinical features, complications and management of supracondylar fracture of humerus.	19	33	20
2. Outline the clinical features and management of congenital dislocation of Hip.	19	33	20
II. Write Notes on:			
1. Radial nerve injury.	3	8	5
2. Idiopathic scoliosis.	3	8	5
3. Tennis elbow.	3	8	5
4. Posterior dislocation of hip.	3	8	5
5. Reverse Colle's fracture.	3	8	5
6. Giant cell tumour.	3	8	5
7. Radiological feature of ankylosing spondylitis.	3	8	5
8. Value of MRI in Brain injuries.	3	8	5
III. Short Answers :			
1. Difference between open and closed fracture.	1	5	2
2. X-Ray findings in Osteoarthritis of knee.	1	5	2
3. Pathological type of leprosy.	1	5	2
4. Causes of knock knee.	1	5	2
5. Indications of amputation.	1	5	2
6. Pott's fracture.	1	5	2
7. Radiological features of rickets.	1	5	2
8. X-Ray findings in Colle's fracture.	1	5	2
9. Stump neuroma.	1	5	2
10. Involucrum.	1	5	2

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[LC 6158] **FEBRUARY 2013** **Sub. Code: 6158**

SECOND YEAR BOT EXAM

Paper – IV CLINICAL ORTHOPAEDICS AND RADIO DIAGNOSIS

Q.P. Code: **786158**

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

(180 Min)

I. Elaborate on: **(2X20=40)**

1. Hansens disease;clinical manifestation and management of Ulnar claw hand.
2. Recurrent dislocation of shoulder; mechanism, clinical features and management.

II. Write Notes on: **(8X5=40)**

1. Erbs plasy.
2. Lumbar canal stenosis.
3. Osteoid osteoma.
4. Cervical spondylosis.
5. Osteomyelitis.
6. Avascular necrosis of femoral head.
7. Hand deformities in Rheumatoid Arthritis.
8. Enchondroma.

III. Short Answers : **(10X2=20)**

1. Compound fracture.
2. Pott's spine.
3. Tennis elbow.
4. Causes of Genu valgum.
5. McMurray's test.
6. Colles fracture.
7. Jefferson's fracture.
8. Housemaid and Clergyman's knee.
9. Cardinal signs of Osteoarthritis.
10. Position of safe immobilization of hand.

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[LD 6158] **AUGUST 2013** **Sub. Code: 6158**

SECOND YEAR BOT EXAM

PAPER IV – CLINICAL ORTHOPAEDICS AND RADIO DIAGNOSIS

Q.P. Code : 786158

Time: Three Hours **Maximum: 100 marks**

I. Elaborate on: **(2X20=40)**

1. Describe the clinical features, complications and management of colles Fracture.
2. Describe the pathology, radiological features, complications and management of Tuberculosis Hip.

II. Write Notes on: **(8X5=40)**

1. Foot drop
2. Rheumatoid Hand
3. Giant cell Tumour
4. Radiological features of Osteoarthritis Knee
5. Pes planus
6. Value of CT scan in Brain injury
7. Painful Arc syndrome
8. Chronic Osteomyelitis.

III. Short Answers: **(10X2=20)**

1. Causes of Wrist drop
2. Arthroplasty
3. Compound Fracture
4. Dislocation and subluxation
5. Radiological features of Rickets
6. Ultrasonogram
7. Monteggia fracture – dislocation
8. Mallet finger
9. Management of scoliosis
10. Radiological features of Osteosarcoma.

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[LE 6158] **FEBRUARY 2014** **Sub. Code: 6158**

SECOND YEAR BOT EXAM

PAPER IV – CLINICAL ORTHOPAEDICS AND RADIO DIAGNOSIS

Q.P. Code : 786158

Time: Three Hours **Maximum: 100 marks**

I. Elaborate on: **(2X20=40)**

1. Classify amputations. List the indication. Outline the pre-operative, operative and prosthetic management of transtibial Amputee.
2. Describe the clinical features, classification, complications and management of fracture neck of femur in a 65 years old male.

II. Write Notes on: **(8X5=40)**

1. Wrist drop
2. Plantar faciitis
3. Club foot
4. Vlokmans Ischemic contracture
5. Osterosarcoma
6. Ankylosing spondylitis
7. Radilogical features of Rheumatoid knee
8. Osteoporosis

III. Short Answer: **(10X2=20)**

1. Pott's Fracture
2. Bennett's fracture dislocation.
3. Causes of foot drop
4. Complications of colle's fracture
5. Radiological features of Ewing's sarcoma
6. Cobbs Angle
7. Osteotomy
8. Dequerveins disease
9. Myositis ossificans
10. Carpal tunnel syndrome.

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[LF 6158] **AUGUST 2014** **Sub. Code: 6158**

SECOND YEAR BOT EXAM
PAPER IV – CLINICAL ORTHOPAEDICS, RADIO DIAGNOSIS

Q.P. Code : 786158

Time: Three Hours **Maximum: 100 marks**

I. Elaborate on: **(2X20=40)**

1. Discuss the Etiology, clinical features and management of tuberculous osteomyelitis.

2. Outline the mechanism, clinical features and management of Acute cervical spine injury with quadriparesis.

II. Write Notes on: **(8X5=40)**

1. Principles of knee arthroplasty
2. Stages of fracture healing
3. Classify amputation, list indications for surgery
4. Ulnar claw hand
5. Principles of internal fixation
6. Congenital talipes equinovarus
7. Anerysmal bone cyst
8. Flexor tendon injuries of forearm and hand

III. Short Answer: **(10X2=20)**

1. Galeazi fracture
2. Types of shoulder dislocation
3. Clinical diagnostic tests for anterior cruciate ligament injury
4. Radiological features of rickets
5. Jone's tendon transfer
6. Causes of avascular necrosis of femoral head
7. Shoulder hand syndrome
8. Ankle sprain management
9. Foot drop
10. Local signs and symptoms of long bone fractures

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[LG 6158] **FEBRUARY 2015** **Sub. Code: 6158**

SECOND YEAR BOT EXAMINATION
PAPER IV – CLINICAL ORTHOPAEDICS, RADIO DIAGNOSIS

Q.P. Code : 786158

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

I. Elaborate on: **(2 x 20 = 40)**

1. Outline the etiopathology, types, clinical features and management of Brachial plexus injury.
2. Discuss in detail about Osteomyelitis – Definition, clinical features, types causes, management and complications.

II. Write notes on: **(8 x 5 = 40)**

1. Osteotomy
2. Phantom Limb pain
3. Galeazzi fracture dislocation
4. Tennis elbow
5. Osteo sarcoma
6. Pott's spine
7. Radiological features of giant cell tumour
8. Radiological features of Ankylosing spondylitis

III. Short answers on: **(10 x 2 = 20)**

1. Ulnar claw hand
2. Define osteoporosis
3. Z thumb deformity
4. Plaster of Paris
5. Klumpkey's paralysis
6. X-ray findings in club foot
7. Causes of foot drop
8. Green stick fracture
9. Difference between dislocation and subluxation
10. Causes of amputation

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[LH 6158] **AUGUST 2015** **Sub. Code: 6158**

B.O.T. DEGREE EXAMINATION

SECOND YEAR

PAPER IV – CLINICAL ORTHOPAEDICS, RADIO DIAGNOSIS

Q.P. Code: 786158

Time : Three Hours **Maximum : 100 marks**

Answer ALL questions

I. Elaborate on: **(2 x 20 = 40)**

1. Write briefly about anterior shoulder dislocation, its clinical manifestations, management and complications.
2. Describe the pathology, clinical features, complications and management of TB spine.

II. Write notes on: **(8 x 5 = 40)**

1. Colle's fracture.
2. Phantom limb.
3. Ewings sarcoma.
4. Rotator cuff tear.
5. Club foot.
6. Management of fracture non union.
7. Radiological features of Osteosarcoma.
8. Radiological features of Rickets.

III. Short Answers on: **(10 x 2 = 20)**

1. Erb's point.
2. Mcmurray's test
3. Stages of fracture healing
4. Define Osteomyelitis
5. Define Q angle
6. Types of leprosy
7. Hallux valgus
8. Complications of supra condylar fracture of humerus
9. Bamboo spine
10. Osteo arthritis knee – X-ray findings

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[LI 6158] FEBRUARY 2016 **Sub. Code: 6158**

SECOND YEAR BOT EXAMINATION
PAPER IV – CLINICAL ORTHOPAEDICS, RADIO DIAGNOSIS

Q.P. Code : 786158

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. What are the clinical features, radiological features, management and complications of Fracture Neck of Femur?

2. What are the clinical features, radiological features and treatment of Supra condylar fracture of humerus?

II. Write notes on: **(8 x 5 = 40)**

1. Below knee amputation.
2. Rheumatoid Hand.
3. Osteo clastoma.
4. Foot drop.
5. Sudeck's Osteo dystrophy.
6. Osteo sarcoma.
7. Causes for low back pain.
8. Volkmann's Ischemic contracture.

III. Short answers on: **(10 x 2 = 20)**

1. Mallet finger.
2. Radiological features of Colle's fracture.
3. Dislocation.
4. Pen Test.
5. Neuropraxia.
6. Arthroplasty.
7. Radiological features in OA knee.
8. Plantar fasciitis.
9. Erb's palsy.
10. Straight Leg Raising (SLR) Test.

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[LJ 6158] AUGUST 2016 **Sub. Code: 6158**

SECOND YEAR BOT EXAMINATION
PAPER IV – CLINICAL ORTHOPAEDICS, RADIO DIAGNOSIS

Q.P. Code: 786158

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. What are the clinical features, radiological features, management and complications of Colle's fracture?

2. What are the types, clinical features, radiological features and treatment of Osteoarthritis knee?

II. Write notes on: **(8 x 5 = 40)**

1. Shoulder Hand Syndrome.
2. Carpal Tunnel Syndrome.
3. Stump care.
4. Congenital Talipes Equino Varus (CTEV) deformity.
5. Wrist drop.
6. Scoliosis.
7. Osteomyelitis.
8. Myositis ossificans.

III. Short answers on: **(10 x 2 = 20)**

1. Radiological features in Rickets.
2. Polio virus.
3. Subluxation.
4. Fracture disease.
5. Tinel sign.
6. Arthrodesis.
7. Radiological features in Ankylosing spondylosis.
8. Flat foot.
9. Froment's sign.
10. Non union.

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[LK 6158] FEBRUARY 2017 **Sub. Code: 6158**

BOT DEGREE EXAMINATION
SECOND YEAR
PAPER IV – CLINICAL ORTHOPAEDICS, RADIO DIAGNOSIS

Q.P. Code: 786158

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Define Dislocation. Write in detail about mechanism of injury, clinical features, investigations and treatment of anterior dislocation of shoulder.

2. Classify Bone Tumours. Write in detail about clinical features, investigations and treatment of Osteosarcoma.

II. Write notes on: **(8 x 5 = 40)**

1. Bone grafting.
2. External fixation.
3. Ankle sprain.
4. Compartment syndrome.
5. Complications of spinal injuries.
6. Recurrent dislocation of patella.
7. X-ray finding of Rheumatoid Arthritis.
8. Septic arthritis.

III. Short answers on: **(10 x 2 = 20)**

1. Tropic ulcer.
2. Ulnar claw hand.
3. Osteoporosis.
4. MRI spinal cord.
5. Arthrodesis.
6. Plaster of paris.
7. Below knee prosthesis.
8. Treatment of Colle's fracture.
9. Myositis ossificans.
10. Fracture healing.

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[LL 6158] AUGUST 2017 **Sub. Code: 6158**

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2013-2014 onwards)
SECOND YEAR
PAPER IV – CLINICAL ORTHOPAEDICS, RADIO DIAGNOSIS

Q.P. Code: 786158

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. What are the fractures common in elderly? Describe aetiology, clinical features and treatment of fracture neck of femur.
2. Describe aetiology, clinical features, treatment, complications of osteomyelitis.

II. Write notes on: **(8 x 5 = 40)**

1. Ankylosing Spondylitis.
2. Role of ultrasound in orthopaedics.
3. Fat embolism.
4. Post polio residual paralysis.
5. Scoliosis.
6. Benign bone tumours.
7. Foot drop.
8. Tendon Injury.

III. Short answers on: **(10 x 2 = 20)**

1. Shoulder-Hand syndrome.
2. Ankle sprain.
3. Treatment of Osteosarcoma.
4. X-ray findings of spine injury.
5. Plaster of Paris.
6. Complications of leprosy.
7. External fixation.
8. Open fractures.
9. Galeazzi Fracture dislocation.
10. Myositis ossificans.

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

[LM 6158] FEBRUARY 2018 **Sub. Code: 6158**

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2013-2014 onwards)
SECOND YEAR
PAPER IV – CLINICAL ORTHOPAEDICS, RADIO DIAGNOSIS

Q.P. Code: 786158

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe aetiology, clinical features, investigations and treatment of Septic Arthritis.

2. What are the causes for back pain? Describe clinical features, investigations and treatment of Lumbar disc prolapsed.

II. Write notes on: **(8 x 5 = 40)**

1. Osteoarthritis.
2. Malunited Colle's fracture.
3. Role of CT scan in fractures.
4. Principles of arthroplasty.
5. Wrist drop.
6. Treatment of Giant all tumour.
7. CTEV.
8. Deformities in poliomyelitis.

III. Short answers on: **(10 x 2 = 20)**

1. Fracture disease.
2. Fat embolism.
3. Monteggia fracture dislocation.
4. Patella fracture.
5. Genu valgum.
6. Neuropraxia.
7. Below knee amputation.
8. Rheumatoid hand.
9. X-ray findings of TB spine.
10. Meningo myelocoele.

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[LJ 6178] AUGUST 2016 **Sub. Code: 6178**

SECOND YEAR BOT EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
PAPER IV – CLINICAL ORTHOPAEDICS

Q.P. Code: 786178

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Classify Spinal deformities and outline the salient clinical features, management and complications.

2. Classify and outline the clinical features, management and complications of Ewing sarcoma of femur.

II. Write notes on: **(8 x 5 = 40)**

1. Smith fracture.
2. Osteochondroma.
3. Tuberculosis of hip joint.
4. Dislocation of elbow.
5. Osteoarthritis of knee joint.
6. Swan neck deformity.
7. Radiological features of chronic osteomyelitis.
8. Management of gap non union of femur shaft.

III. Short answers on: **(10 x 2 = 20)**

1. Anterior drawer test knee joint.
2. Patellar tendon bearing cast.
3. Pulled elbow.
4. Acute osteomyelitis.
5. Shoulder impingement syndrome.
6. Radiological features of rheumatoid arthritis knee.
7. Bone grafting.
8. Indications for tendon transfer.
9. Vertical talus.
10. Define Orthosis.

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[LK 6178] FEBRUARY 2017 **Sub. Code: 6178**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER IV – CLINICAL ORTHOPAEDICS

Q.P. Code: 786178

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. What are the clinical features, radiological features, management and complications of Supracondylar fractures of Femur?

2. What are the indications, contraindications and principles of Arthrodesis?

II. Write notes on: **(8 x 5 = 40)**

1. Shoulder hand syndrome.
2. Complications of open fractures.
3. Osteoid osteoma.
4. Meningomyelocele.
5. Management of post polio residual paralysis.
6. Septic arthritis of knee joint.
7. High radial nerve palsy.
8. Management of extensor tendon injuries of hand.

III. Short answers on: **(10 x 2 = 20)**

1. Radiological features of osteoporosis.
2. Crutch palsy.
3. Hand deformities in leprosy.
4. Subacute osteomyelitis.
5. Recurrent dislocation of shoulder.
6. Achilles tendinitis.
7. Flat foot.
8. Arthrogryphosis multiplex congenita.
9. Lachman test.
10. What is ‘Ulnar paradox’?

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[LL 6178] AUGUST 2017 **Sub. Code: 6178**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER IV – CLINICAL ORTHOPAEDICS

Q.P. Code: 786178

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Classify Amputations. List the indication, outline the preoperative, operative and prosthetic management of transtibial amputee.
2. Outline etiopathology clinical features, complications of Rheumatoid Arthritis. How do you manage Rheumatiod hand?

II. Write notes on: **(8 x 5 = 40)**

1. Stages of fracture healing.
2. Leprosy.
3. Carpel tunnel syndrome.
4. Classification of tumours.
5. Plantar facitis.
6. Kyphosis.
7. Orthotic applications in poliomyelitis.
8. Types of radio diagnostic methods.

III. Short answers on: **(10 x 2 = 20)**

1. Difference between dislocation and subluxation.
2. Myositis ossification.
3. Principles of tendon transfer.
4. Classification of sprain.
5. Causes for recurrent dislocation of Patella.
6. List out the X-ray of findings in Ankylosing spondylitis.
7. Rickets.
8. Tropic ulcer.
9. Pesplanus.
10. Saturday night palsy.

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

[LM 6178] FEBRUARY 2018 **Sub. Code: 6178**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014 -2015 onwards)
SECOND YEAR
PAPER IV – CLINICAL ORTHOPAEDICS

Q.P. Code: 786178

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Classify bone tumours. Discuss the clinical features, diagnosis and management of giant cell tumour of proximal tibia.

2. Describe about the clinical features, etiology, classification and management of scoliosis.

II. Write notes on: **(8 x 5 = 40)**

1. Ulnar claw hand.
2. Principles of internal fixation.
3. Ankylosing spondylitis.
4. Painful Arc syndrome.
5. Arthroplasty.
6. Causes of lowback ache.
7. Value of MRI in brain injury.
8. Monteggia fracture.

III. Short answers on: **(10 x 2 = 20)**

1. Clinical diagnostic tests for Anterior cruciate ligament injury.
2. Sudecks dystrophy.
3. Tardy Ulnar nerve palsy
4. Difference between open and closed fracture.
5. Causes of knock knee.
6. Potts fracture.
7. Involucrum.
8. Cobb's angle.
9. Common causes of Genu recurvatum.
10. Mallet finger.

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

[LN 6178] AUGUST 2018 **Sub. Code: 6178**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER IV – CLINICAL ORTHOPAEDICS

Q.P. Code: 786178

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Discuss in detail the levels of amputation and its causes. Give a brief outline on the pre-operative, post-operative and prosthetic management.

2. Outline the etiology of Ankylosing spondylitis, describe briefly its management and the role of exercise.

II. Write notes on: **(8 x 5 = 40)**

1. Claw hand.
2. Idiopathic scoliosis.
3. Rheumatoid hand.
4. Compound fracture.
5. Complication of lower limb fracture.
6. TB Spine.
7. Osteoma.
8. Periarthritis shoulder.

III. Short answers on: **(10 x 2 = 20)**

1. Define kyphoscoliosis.
2. Define difference between dislocation and subluxation.
3. Define sprain and strain.
4. Cold Abcess.
5. Central dislocation of Hip.
6. List the levels of upper limb amputation.
7. Osteomyelitis.
8. Stages of bone healings.
9. List the types of Leprosy.
10. Management of fracture neck of femur.

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

[LO 6178] FEBRUARY 2019 **Sub. Code: 6178**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER IV – CLINICAL ORTHOPAEDICS

Q.P. Code: 786178

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the clinical features, complication, and management of a patient with fracture of D8 Vertebra with paraplegia.

2. Outline the etiopathology of Rheumatoid arthritis. Describe the deformities.

II. Write notes on: **(8 x 5 = 40)**

1. Tennis Elbow.
2. Shoulder hand syndrome.
3. CTEV.
4. Klumpkey's Palsy.
5. Fracture Clavical.
6. Causes and complication of Below Elbow Amputation.
7. Ankylosing Spondylitis.
8. Clinical features and management for Malignant Tumors.

III. Short answers on: **(10 x 2 = 20)**

1. Mallet Finger.
2. Myositis Ossification.
3. List the types of fracture.
4. Erbs palsy.
5. Cold Abcess.
6. Bartons fracture.
7. Triple dislocation.
8. Subluxation.
9. Bamboo spine.
10. Carpal tunnel syndrome.

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

[LP 6178] AUGUST 2019 **Sub. Code: 6178**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER IV – CLINICAL ORTHOPAEDICS

Q.P. Code: 786178

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Explain Colle's fracture with etiology, features, deformity and complications.

2. Define Septic Arthritis. Explain the etiology, clinical features, management and complications.

II. Write notes on: **(8 x 5 = 40)**

1. MRC grading of muscle power.
2. Criteria for tendon transfer.
3. Difference between ankylosis and arthrodesis.
4. Types of fractures, describe about open fracture.
5. Radiological features of osteo sarcoma and ewings sarcoma.
6. Management of Rheumatoid Arthritis.
7. Claw hand.
8. Radial nerve palsy.

III. Short answers on: **(10 x 2 = 20)**

1. Galeazzi fracture.
2. Painful arc syndrome.
3. Golfers elbow.
4. Rocker bottom deformity.
5. Foot drop.
6. Sudecks osteodystrophy.
7. Bone grafting.
8. Green stick fracture.
9. Volkmans sign.
10. Trophic ulcer.

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

[LQ 6178] FEBRUARY 2020 **Sub. Code: 6178**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER IV – CLINICAL ORTHOPAEDICS

Q.P. Code: 786178

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the pathogenesis, clinical features, investigations and management of Osteoarthritis of Knee joint.

2. Outline the clinical features, investigations and management of Brachial Plexus injuries.

II. Write notes on: **(8 x 5 = 40)**

1. Volkmann's ischaemic contracture.
2. Recurrent dislocation of Patella.
3. Complications of Amputation.
4. Post Polio Residual Paralysis.
5. Congenital Talipes Equinovarus Foot.
6. Meningomyelocele.
7. Septic Arthritis.
8. Osteoclastoma.

III. Short answers on: **(10 x 2 = 20)**

1. Genu Recurvatum.
2. Dinner fork deformity.
3. Ankle Sprain.
4. Shoulder hand syndrome.
5. Pes cavus.
6. Monteggia fracture.
7. Diagnostic test for anterior cruciate ligament injury.
8. Tennis elbow.
9. Osteomyelitis.
10. Supraspinatus tendinitis.

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

[LR 1220] **DECEMBER 2020** **Sub. Code: 6178**
(AUGUST 2020 EXAM SESSION)

BOT DEGREE EXAMINATION
SECOND YEAR
(New regulations for the candidates admitted from 2014-2015 onwards)
PAPER IV – CLINICAL ORTHOPAEDICS
Q.P. Code: 786178

Time: Three hours **Answer ALL Questions** **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Discuss the causes for Back Pain. Add a note on clinical features, investigations and management of Ankylosing Spondylitis.

2. Classify the types of fractures, stages of fracture, healing and management of fractures.

II. Write notes on: **(8 x 5 = 40)**

1. Osteosarcoma.
2. Recurrent Dislocation of Shoulder.
3. Tennis Elbow.
4. Mallet finger.
5. Radiological findings in Rheumatoid hand.
6. Stump Neuroma.
7. Foot drop.
8. Klumpke's paralysis.

III. Short answers on: **(10 x 2 = 20)**

1. Genu Valgum.
2. Housemaid knee.
3. Dislocation & Subluxation.
4. Phantom Limb Sensation.
5. Gibbus.
6. Torticollis.
7. Arthrodesis.
8. Rickets.
9. Septic Arthritis.
10. Syme's Amputation.

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

[BOT 0921] **SEPTEMBER 2021** **Sub. Code: 6178**
(FEBRUARY 2021 EXAM SESSION)

BOT DEGREE EXAMINATION
SECOND YEAR - (Regulations for the candidates admitted from 2014-2015 onwards)
PAPER IV – CLINICAL ORTHOPAEDICS
Q.P. Code : 786178

Time : Three hours **Answer ALL Questions** **Maximum : 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. What are the clinical features, radiological features, management and complications of Supra Condylar fractures of humerus in a 5 year old child?

2. Classify bone tumours. Discuss the clinical features, diagnosis and management of Ewing Sarcoma of Tibia?

II. Write notes on: **(8 x 5 = 40)**

1. Crutch Palsy.
2. Kyphoscoliosis.
3. Carpel Tunnel Syndrome.
4. Golfer's Elbow.
5. Congenital Dysplasia of Hip.
6. Sudeck's Osteodystrophy.
7. Colle's Fracture.
8. Bankart's Lesion.

III. Short answers on: **(10 x 2 = 20)**

1. Complications of amputation.
2. Pott's Fracture.
3. Involucrum.
4. McMurray's Test.
5. PlantarFascitis.
6. Shoulder Hand Syndrome.
7. Green Stick Fracture.
8. Rotator Cuff Tear.
9. Stages of Fracture Healing.
10. Types of Leprosy.

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

[BOT 0122] JANUARY 2022 Sub. Code: 6178
(AUGUST 2021 EXAM SESSION)

BACHELOR OF OCCUPATIONAL THERAPY DEGREE COURSE
SECOND YEAR - (Regulations for the candidates admitted from 2014-2015 onwards)
PAPER IV – CLINICAL ORTHOPAEDICS
Q.P. Code : 786178

Time : Three hours **Answer ALL Questions** **Maximum : 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Write briefly about types of Shoulder dislocation, anterior shoulder dislocation its clinical manifestation, management and complication.

2. Outline the etiopathology types, clinical features and management of Congenital Talipus Equino Varus.

II. Write notes on: **(8 x 5 = 40)**

1. Fracture disease.
2. Cauda equina syndrome.
3. Mallet finger.
4. Erb's palsy.
5. Dennis Browne splint.
6. Straight leg raising test.
7. Swan neck deformity.
8. Volkmans Ischemic contracture.

III. Short answers on: **(10 x 2 = 20)**

1. List the complication of patellectomy.
2. Management of soft tissue injury.
3. Define flat foot.
4. Complications of polio.
5. List the clinical features seen in TB spine.
6. Classify spinal deformities.
7. Q Angle.
8. Indication of Arthroplasty.
9. Sudecks atrophy.
10. Name of four malignant bone tumors.

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[LJ 6175] AUGUST 2016 **Sub. Code: 6175**

SECOND YEAR BOT EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
PAPER I – FUNDAMENTALS FOR OCCUPACTIONAL THERAPY PRACTICE

Q.P. Code: 786175

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Define Play? Explain the different stages in play.

2. Gradings in (i) Muscle Tone (ii) Muscle Strength (iii) Voluntary control (iv) Deep Tendon reflexes.

II. Write notes on: **(8 x 5 = 40)**

1. Rood's inhibitory technique.
2. Principles of treatment in BOBATH.
3. Non – Equilibrium tests.
4. Group levels.
5. Facial nerve testing.
6. Cutaneous Sensation.
7. Instrumental Activities of Daily Living (IADL).
8. Sensory defensiveness.

III. Short answers on: **(10 x 2 = 20)**

1. Methods to maintain ROM in biomechanical approach.
2. Differential reinforcement.
3. Non-prehensile functions.
4. Shoulder ROM.
5. PQRST rehearsal method.
6. Figure – Ground perception.
7. Guided imagery.
8. Parts of Goniometer.
9. Inter personal skills.
10. Object permanence.

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[LK 6175] FEBRUARY 2017 **Sub. Code: 6175**

BOT EXAMINATION
SECOND YEAR
(New Regulations for the candidates admitted from 2014-2015 onwards)
PAPER I – FUNDAMENTALS FOR OCCUPACTIONAL THERAPY PRACTICE

Q.P. Code: 786175

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Explain the Ecological Model in Occupational therapy.

2. Describe the facilitation and inhibitory techniques of Roods approach

II. Write notes on: **(8 x 5 = 40)**

1. Define model, frame of reference and an approach.
2. Types of hand functions.
3. Types of Reinforcers.
4. Components of Model of Human Occupation.
5. Explain Brunstromm's stage 3 for the upper extremity.
6. Outline the principles of Sensory Integrative Therapy.
7. Peto's Conductive Education.
8. Explain Allen's cognitive level 1.

III. Short answers on: **(10 x 2 = 20)**

1. What are the four steps of motor relearning?
2. Reflex inhibiting pattern.
3. Role performance.
4. Write two principle of Brunstromm.
5. What is basic ADL?
6. What is reinforcement?
7. Name the three components of MOHO?
8. Define sensory Modulation.
9. Tripod pinch.
10. Gives examples of two vestibular activities in Sensory Integration Therapy.

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[LL 6175] AUGUST 2017 **Sub. Code: 6175**

BOT DEGREE EXAMINATION
SECOND YEAR
(New Regulations for the candidates admitted from 2014-2015 onwards)
PAPER I – FUNDAMENTALS FOR OCCUPACTIONAL THERAPY PRACTICE

Q.P. Code: 786175

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Explain the psychodynamic stage theory and its clinical importance.
2. Describe the assumptions of sensory integration theory.

II. Write notes on: **(8 x 5 = 40)**

1. Progressive resistive exercise.
2. Cognitive Triad.
3. How to manage resistances to therapy?
4. Psychodynamic theoretical Assumptions.
5. Treatment principles of task oriented Approach.
6. How to structure Activity based balance Training.
7. Azima battery.
8. Brunnstrom stages of Arm.

III. Short answers on: **(10 x 2 = 20)**

1. Define paresthesia.
2. Define proprioception.
3. Define stereognosis.
4. Define apraxia.
5. How to test Static Two point Discrimination?
6. How to test unilateral neglect?
7. What is dysexecutive syndrome?
8. Define nystagmus.
9. How to Test dysmetria?
10. What is clonus?

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

[LM 6175] FEBRUARY 2018 **Sub. Code: 6175**

BOT DEGREE EXAMINATION
SECOND YEAR
(New Regulations for the candidates admitted from 2014-2015 onwards)
PAPER I – FUNDAMENTALS FOR OCCUPACTIONAL THERAPY PRACTICE

Q.P. Code: 786175

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the principles of Bio-mechanical approach with suitable illustrations.
2. Define Reinforcement. Briefly explain about types of Reinforcement and its principles.

II. Write notes on: **(8 x 5 = 40)**

1. Assumptions of task oriented approach.
2. CNS plasticity.
3. Ego functions.
4. Principles of sensory testing.
5. Volition subsystem.
6. Limitations of cognitive disability frame of reference.
7. Brunnstrom stages of hand.
8. Relaxation techniques in Proprioceptive Neuromuscular Facilitation.

III. Short answers on: **(10 x 2 = 20)**

1. What is occupational performance?
2. What is Instrumental Activities of Daily Living?
3. Define Anatomical position.
4. What is mechanical advantage?
5. Define active Range of Motion.
6. What are the methods of measuring Edema?
7. Define maximum voluntary contraction.
8. What is palmar pinch?
9. What is response cost?
10. Define occupational therapy.

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

[LN 6175] AUGUST 2018 **Sub. Code: 6175**

BOT DEGREE EXAMINATION
SECOND YEAR
(New Regulations for the candidates admitted from 2014-2015 onwards)
PAPER I – FUNDAMENTALS FOR OCCUPACTIONAL THERAPY PRACTICE

Q.P. Code: 786175

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Outline the assumptions and postulates of Sensory Integration. Classify sensory processing disorder.

2. What are assumptions and postulates of Biomechanical frame of reference? Mention its application to improve functions in a patient.

II. Write notes on: **(8 x 5 = 40)**

1. What are the goals of Rehabilitative frame of reference?
2. Mention five techniques of Neuro developmental therapy.
3. Explain about two upper extremity PNF patterns.
4. Give a brief outline about developmental approach.
5. Write out the assumptions of Cognitive Disability FOR.
6. Classify hand function.
7. What is performance and satisfaction according to the Canadian Model of Occupational Performance?
8. Genitiles classification of Task.

III. Short answers on: **(10 x 2 = 20)**

1. Diagonal reciprocal pattern.
2. Autonomic reactions according to NDT.
3. What is shallow well?
4. What is figure ground perception?
5. As per Affolter's approach what do you understand by the term Hectic individual?
6. What is short term memory?
7. Straight leg raising test.
8. What is muscle tone?
9. What is volition subsystem?
10. What is Homolateral synkinesis?

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

[LO 6175] FEBRUARY 2019 **Sub. Code: 6175**

BOT DEGREE EXAMINATION
SECOND YEAR
(New Regulations for the candidates admitted from 2014-2015 onwards)
PAPER I – FUNDAMENTALS FOR OCCUPACTIONAL THERAPY PRACTICE

Q.P. Code: 786175

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the various methods of treatment used in Neuro Developmental Approach.

2. Briefly explain the principles of the Biomechanical approach to increase range of motion, strength, and endurance as needed for occupational performance.

II. Write notes on: **(8 x 5 = 40)**

1. Principles of Goniometer placement.
2. Muscle testing procedures.
3. Types of reinforcers.
4. Shoemyen Battery.
5. Characteristics of an active learning Environment.
6. Inhibitory techniques of Rood's Approach.
7. Sensory integration activities for Gravitational Insecurity.
8. Dimentions of role play.

III. Short answers on: **(10 x 2 = 20)**

1. Define closed loop system.
2. What is maladaptive behavior?
3. Define generalization.
4. Define agnosia.
5. Define form constancy.
6. What is libido?
7. How to test moving two point discrimination?
8. How to test constructional apraxia?
9. What are the types of Goniometer?
10. What are the types of Grasp?

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

[LP 6175] AUGUST 2019 **Sub. Code: 6175**

BOT DEGREE EXAMINATION
SECOND YEAR
(New Regulations for the candidates admitted from 2014-2015 onwards)
PAPER I – FUNDAMENTALS FOR OCCUPACTIONAL THERAPY PRACTICE

Q.P. Code: 786175

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Bio-mechanical frame of reference.

2. Model of Human Occupation.

II. Write notes on: **(8 x 5 = 40)**

1. Assumptions of neuro developmental treatment approach.
2. Four step process in motor relearning program.
3. Behavior modification techniques.
4. Deficits addressed in Rehabilitative frame of reference.
5. Gross motor development up to 2 years from birth.
6. Assessment of higher cognitive functions.
7. Assessment of social skills.
8. Methods in assessing muscle strength.

III. Short answers on: **(10 x 2 = 20)**

1. Function dysfunction continuum.
2. Dysdiadokokinesia.
3. Modified ashworth scale.
4. Define stereognosis and baragnosis.
5. Functions of cerebellum.
6. Gag reflex.
7. Parts of a Goniometer.
8. Associated reactions.
9. Icing techniques.
10. Goal of sensory integrative therapy.

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

[LQ 6175] FEBRUARY 2020 **Sub. Code: 6175**

BOT DEGREE EXAMINATION
SECOND YEAR
(New Regulations for the candidates admitted from 2014-2015 onwards)
PAPER I – FUNDAMENTALS FOR OCCUPACTIONAL THERAPY PRACTICE

Q.P. Code: 786175

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe Rehabilitative frame of reference.

2. Define cognition and perception. Describe the cognitive perceptual assessment in detail.

II. Write notes on: **(8 x 5 = 40)**

1. Affolter's approach.
2. Canadian Model of Occupational performance.
3. NDT facilitatory techniques.
4. Brunnstrom stages of arm recovery.
5. Equilibrium and non-equilibrium tests.
6. Intra and interpersonal skills.
7. Assessment of range of motion of shoulder joint.
8. Oro-motor evaluation.

III. Short answers on: **(10 x 2 = 20)**

1. Cortical sensations.
2. Significance of deep tendon reflexes.
3. In-hand manipulation skills.
4. Testing procedure for brachialis muscle.
5. Shaping and modeling.
6. Self-awareness.
7. Rest and stress principle.
8. Souques phenomenon.
9. Degrees of freedom in wrist joint.
10. Apraxia.

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

[LR 1220] **DECEMBER 2020** **Sub. Code: 6175**
(AUGUST 2020 EXAM SESSION)

BOT DEGREE EXAMINATION
SECOND YEAR
(New regulations for the candidates admitted from 2014-2015 onwards)
PAPER I – FUNDAMENTALS FOR OCCUPACTIONAL THERAPY PRACTICE (SEC I & II)
Q.P. Code: 786175

Time: Three hours **Answer ALL Questions** **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe motor re-learning program.

2. Describe cognitive behavioural frame of reference.

II. Write notes on: **(8 x 5 = 40)**

1. Identify sensory, motor and mixed cranial nerves.
2. Brunnstrom stages of hand.
3. Classification of tasks.
4. PNF relaxation techniques.
5. Mosey's stages of group development.
6. Allen's cognitive levels.
7. Play assessment.
8. Muscle tone and muscle strength evaluation.

III. Short answers on: **(10 x 2 = 20)**

1. Define Acquestion.
2. Types of roles.
3. Functions of trigeminal nerve.
4. Degrees of freedom in shoulder joint.
5. Grip strength.
6. Depth perception.
7. Receptive and expressive aphasia.
8. Visual foundation skills.
9. Inductive and deductive reasoning.
10. NDT Techniques.

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

[BOT 0921] **SEPTEMBER 2021** **Sub. Code: 6175**
(FEBRUARY 2021 EXAM SESSION)

BOT DEGREE EXAMINATION
SECOND YEAR - (Regulations for the candidates admitted from 2014-2015 onwards)
PAPER I – FUNDAMENTALS FOR OCCUPACTIONAL THERAPY PRACTICE (SEC I & II)
Q.P. Code : 786175

Time : Three hours **Answer ALL Questions** **Maximum : 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. What are assumptions and postulates of Rehabilitative frame of reference? Mention two techniques used for ADL adaptations.

2. Explain briefly the Psycho analytic approach.

II. Write notes on: **(8 x 5 = 40)**

1. What is ego functioning? Explain.
2. Developing hand function as per Brumstromm's approach.
3. Principles of Behavioral frame of reference.
4. Administering reinforcements for teaching colour concepts in children.
5. Mention five principles of PNF approach.
6. Explain how Scapular Protraction helps in reducing flexor synergy of upper extremity.
7. Types of memory.
8. What are the Ontogenetic Motor Patterns as per Rood's Approach?

III. Short answers on: **(10 x 2 = 20)**

1. Heavy joint compression.
2. Explain weight bearing on affected side as an NDT technique.
3. Components of Instrumental ADL.
4. Functions of facial nerve.
5. Isometric exercise.
6. Name the tool used to assess joint range of motion.
7. What is depth perception?
8. What is key pinch?
9. Define sensory discrimination.
10. Key points of control.

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

[BOT 0122] JANUARY 2022 Sub. Code: 6175
(AUGUST 2021 EXAM SESSION)

BACHELOR OF OCCUPATIONAL THERAPY DEGREE COURSE
SECOND YEAR - (Regulations for the candidates admitted from 2014-2015 onwards)
PAPER I – FUNDAMENTALS FOR OCCUPACTIONAL THERAPY PRACTICE (SEC I & II)
Q.P. Code : 786175

Time : Three hours **Answer ALL Questions** **Maximum : 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Explain Task Oriented Approach?

2. Define Occupation. Explain the concept and importance of Occupation as referred to in Occupational Therapy.

II. Write notes on: **(8 x 5 = 40)**

1. Define gradation and adaptation of activity.
2. Principles of Motor Relearning Program.
3. Equilibrium tests of coordination
4. What are roles and routines?
5. How to assess Judgement in clients?
6. Differentiate between cognition and perception.
7. What is Basic Activities of Daily Living (BADL)?
8. What is Hyposensitivity to sensory input ?

III. Short answers on: **(10 x 2 = 20)**

1. Gravitational Insecurity.
2. Define negative reinforcement.
3. Tripod grasp.
4. What is grade 3 muscle strength?
5. What is cognitive triad?
6. What is regression?
7. Guided imagery.
8. Types of Icing techniques.
9. What is sensorimotor play?
10. Name 2 tactile perception disorders.

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February 2012

[LA 6156] **Sub. Code: 6156**

BACHELOR OF OCCUPATIONAL THERAPY EXAMINATION

SECOND YEAR

Paper II – MEDICINE, SURGERY, PAEDIATRICS, ENT, OPHTHALMOLOGY AND PHARMACOLOGY

Q.P. Code: 786156

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

ANSWER ALL QUESTIONS

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

I. Elaborate on: **(1X20=20)**

1. Define Rheumatic fever and describe etiology, pathology and clinical features and treatment.

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

1. Osteo arthritis
2. Cerebral palsy – definition and clinical features.
3. Spina bifida – clinical features and outcome.
4. Drugs used in angina.

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

1. Vitamin D deficiency.
2. Two causes of defective vision among elderly persons.
3. Two drugs used in Urinary Tract Infection.
4. Bronchial Asthma – definition.
5. Obesity – definition.

SECTION-B

I. Elaborate on: **(1X20=20)**

1. Outline plastic surgery procedures, management in resuscitation of burns including splinting methods in prevention of burns contractures.

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

1. Sub costal incision.
2. Electrical burns.
3. Mention common ENT infection which affects Hearing.
4. Mention common Eye lesion in leprosy.

VI. Short Answers **(5X2=10)**

1. Post operative complication in Thyroidectomy.
2. Post operative complication in Appendisectomy.
3. Function of the vestibular apparatus.
4. Classification of Burns.
5. Midline abdominal incision.

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[LB 6156] **AUGUST 2012** **Sub. Code: 6156**

SECOND YEAR BOT EXAM

Paper – II MEDICINE, SURGERY, PAEDIATRICS, ENT, OPHTHALMOLOGY AND PHARMACOLOGY

Q.P. Code: 786156

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

I. Elaborate on:	**Pages (Max.)**	**Time (Max.)**	**Marks (Max.)**
1. Describe classification, pathology, clinical features, course and prognosis of Juvenile idiopathic arthritis and its management.	19	33	20
II. Write Notes on:			
1. Secondary Hypertention.	3	8	5
2. National Preventive programmes.	3	8	5
3. Urinary Tract Infection.	3	8	5
4. Drugs used in bronchiectasis.	3	8	5
III. Short Answers on:			
1. Any two beta blockers and uses.	1	5	2
2. Definition of emphysema.	1	5	2
3. Types of diabetes.	1	5	2
4. Two major Jones Criteria for rheumatic heart disease.	1	5	2
5. Fallot's tetrology.	1	5	2

SECTION-B

I. Elaborate on:			
1. Classify burns by depth and surface area. Outline causes, medical management and precaution in the acute stage.	19	33	20
II. Write Notes on:			
1. Mcburney's incision.	3	8	5
2. Post burns contractures.	3	8	5
3. What are all the effect of paralysis of the ocular muscle.	3	8	5
4. Role of audiometry in assessing hearing.	3	8	5
III. Short Answers on:			
1. Post operative complication in Nephrectomy.	1	5	2
2. Post operative complication in Herniorrhaphy	1	5	2
3. Scalds.	1	5	2
4. Sub costal incision.	1	5	2
5. Rehabilitation of post burn patient.	1	5	2

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[LC 6156] **FEBRUARY 2013** **Sub. Code: 6156**

SECOND YEAR BOT EXAM

Paper – II MEDICINE, SURGERY, PAEDIATRICS, ENT, OPHTHALMOLOGY AND PHARMACOLOGY

Q.P. Code: 786156

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

(180 Min)

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

I. Elaborate on: **(1X2=20)**

1. Define myocardial infarction. Discuss the clinical features, diagnosis, complications and management.

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

1. Classification of antihypertensive drugs.
2. Treatment of plasmodium vivax malaria.
3. Polio myelitis prevention.
4. Treatment of chronic renal failure.

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

1. Measles complications.
2. Haemophilia treatment.
3. Definition of Bronchiectasis.
4. Jones criteria (Modified).
5. Types of Insulin.

SECTION-B

I. Elaborate on: **(1X2=20)**

1. Classify Burns by depth of surface area; outline causes, medical management and precautions to be taken in acute stage.

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

1. What are the effects of ocular muscle paralysis and discuss their treatment.
2. Write in Brief about the field defects arising from lesions in visual pathway.
3. Outline the physiology and anatomy of hearing.
4. Classify causes of hearing loss. What are the types of hearing aids available?

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

1. Colostomy.
2. Uses of Audiometry.
3. Trachoma.
4. What are the causes of Blindness?
5. Enumerate some common ENT infections.

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[LD 6156] **AUGUST 2013** **Sub. Code: 6156**

SECOND YEAR BOT EXAM

Paper – II MEDICINE, SURGERY, PAEDIATRICS, ENT, OPHTHALMOLOGY AND PHARMACOLOGY

Q.P. Code: 786156

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

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

I. Elaborate on: **(1X20=20)**

1. Describe in detail the etiology, clinical features, diagnosis, complications and the management of Pulmonary Tuberculosis.

II. Write Notes on: **(4X5=20)**

1. AIDS
2. Iron deficiency anaemia
3. Infective endocarditis
4. Drug theraphy of Rhematoid arthritis.

III. Short Answer: **(5X2=10)**

1. Four drugs used in urinary tract infection
2. Four complications of obesity
3. Four common diseases in elderly people
4. Four anti diabetic drugs
5. Four drugs used in cardiac failure.

SECTION – B

I. Elaborate on: **(1X20=20)**

1. Classify burns by depth of involvement? Outline medical management in acute stage in a woman with mixed burns of 60% surface area?

II. Write Notes on: **(4X5=20)**

1. Complications of Herniorraphy
2. Incisions for appendicectomy
3. Burns contracture
4. Complications of Hysteretomy

III. Short Answer: **(5X2=10)**

1. Scalds
2. Post mastectomy lymphedema
3. Kocher’s incision
4. Thyroid storm
5. Keloid

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[LE 6156] FEBRUARY 2014 Sub. Code: 6156

SECOND YEAR BOT EXAM

Paper – II MEDICINE, SURGERY, PAEDIATRICS, ENT, OPHTHALMOLOGY AND PHARMACOLOGY

Q.P. Code: 786156

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

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

I. Elaborate on: **(1X20=20)**

1. Discuss in detail the etiology, clinical features, diagnosis, complications and the management of Hypertension.

II. Write Notes on: **(4X5=20)**

1. Diagnosis and treatment of Systemic Lupus Erythematosus.
2. Tetanus
3. Bleeding diathesis
4. Complications and treatment of Bronchietasis.

III. Short Answer: **(5X2=10)**

1. Four anti viral drugs.
2. Four types of anaemia
3. Four Bronchodilators
4. Four indications of Haemo dialysis
5. Four types of insuilns.

SECTION – B

I. Elaborate on: **(1X20=20)**

1. Outline plastic surgery procedures and management in rehabilitation of burns? How will you manage post burns contracture of neck?

II. Write Notes on: **(4X5=20)**

1. Stoma care
2. Complications of appendicectomy
3. Complications of cholecystectomy
4. Electrical burns

III. Short Answer: **(5X2=10)**

1. Sterile pin test
2. Secondary hemorrhage
3. Stitch granuloma
4. Stridor
5. Hypertrophic scar.

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[LF 6156] **AUGUST 2014** **Sub. Code: 6156**

SECOND YEAR BOT EXAM
Paper – II MEDICINE, SURGERY, PAEDIATRICS, ENT, OPHTHALMOLOGY AND PHARMACOLOGY

Q.P. Code: 786156

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

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

I. Elaborate on: **(1X20=20)**

1. Describe in detail the etiology, clinical features, diagnosis, complications and the management of Diabetes mellitus.

II. Write Notes on: **(4X5=20)**

1. Hepatitis B viral infection.
2. Haemophilia.
3. Acute severe asthma
4. Diagnosis of Rhematic fever.

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

1. Two diseases modifying anti rheumatic drugs (DMARDS).
2. Two complications of chronic renal failure.
3. Two chest wall deformities.
4. Two anti hypertensive drugs.
5. Two lab diagnosis of infective endocarditis.

SECTION – B

I. Elaborate on: **(1X20=20)**

1. Outline the causes for Biliary Leak and describe in detail the management of Biliary Leak.

II. Write Notes on: **(4X5=20)**

1. Inhalational injury
2. Full thickness Skin Grafts
3. Free Flaps
4. Charcot's joints

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

1. ABCD of management of Acute Burns Injury
2. Pelvic Floor Repair
3. Chevron Incision
4. Double barrel Ileostomy
5. Incisional Hernia

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[LG 6156] **FEBRUARY 2015** **Sub. Code: 6156**

SECOND YEAR BOT EXAMINATION
PAPER – II MEDICINE, SURGERY, PAEDIATRICS, ENT, OPHTHALMOLOGY AND PHARMACOLOGY

Q.P. Code: 786156

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

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

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

1. Describe the pathogenesis, clinical features and management of Bronchial Asthma.

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

1. Megaloblastic anemia
2. Pathology and clinical features of Pulmonary tuberculosis
3. Anti-anginal agents
4. ASD(Atrial Septal defect)

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

1. Vitamin A deficiency
2. Plasma expanders
3. Vision loss in elderly-list causes
4. List four bleeding diathesis
5. Immunisation for Diphtheria

SECTION – B

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

1. Outline the eye lesions in Leprosy. Describe causes, treatment and complications of lagophthalmos.

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

1. Briefly outline the structure and function of the vestibular apparatus
2. Abdominal incision used and complications of adrenalectomy
3. Prevention of elbow contractures in burns
4. Split skin graft

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

1. Presbyopia
2. Pfannenstiel incision
3. List four causes of hearing loss
4. Primary haemorrhage
5. Complications of prostatectomy

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[LH 6156] **AUGUST 2015** **Sub. Code: 6156**

B.O.T. DEGREE EXAMINATION

SECOND YEAR

PAPER – II MEDICINE, SURGERY, PAEDIATRICS, ENT, OPHTHALMOLOGY AND PHARMACOLOGY

Q.P. Code: 786156

Time : Three Hours **Maximum : 100 marks**

Answer ALL questions

Section A and B must be answered in SEPARATE Answer Book

SECTION A

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

1. Define angina pectoris and myocardial infarction. Describe the clinical features and outline the medical and surgical therapy of angina pectoris and myocardial infarction.

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

1. Ventricular Septal Defect.
2. Rheumatoid Hand.
3. Primitive reflexes.
4. Immunization schedule.

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

1. Spina bifida.
2. List four Non steroidal anti-inflammatory drugs (NSAIDs).
3. Tetanus.
4. Rickets.
5. Pigeon chest.

SECTION B

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

1. Classify the causes of hearing loss.
   Outline the conservative and surgical interventions of hearing loss.

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

1. Post operative complications in Thyroidectomy
2. Visual pathway.
3. Colostomy
4. Splints for burns rehabilitation

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

1. External ear.
2. Glaucoma.
3. Pedicle graft.
4. Hearing aids.
5. Cataract.

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[LI 6156] FEBRUARY 2016 **Sub. Code: 6156**

SECOND YEAR BOT EXAMINATION
PAPER – II MEDICINE, SURGERY, PAEDIATRICS, ENT, OPHTHALMOLOGY AND PHARMACOLOGY

Q.P. Code: 786156

Time: Three hours **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

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

1. Describe the pathogenesis, clinical features and management of Rheumatoid arthritis.

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

1. Hemophilia
2. Fallots Tetralogy.
3. Acquired immune deficiency syndrome.
4. Meningomyelocele.

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

1. Thrombocytopenia.
2. Name four anti-hypertensive drugs.
3. Pulmonary embolism.
4. Barrel chest.
5. Mode of spread and prevention of Filariasis.

SECTION – B

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

1. Classify burns by depth and surface area. Outline medical management and precautions in the acute stage.

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

1. Cataract.
2. Audiometry in assessment of hearing.
3. Post operative complications in mastectomy
4. Post operative complications in Appendicectomy.

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

1. Mc. Burneys incision.
2. List four complications of hysterectomy.
3. Extraocular muscles.
4. Stitch abscess.
5. Keloid.

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[LJ 6156] AUGUST 2016 **Sub. Code: 6156**

SECOND YEAR BOT EXAMINATION
PAPER – II GENERAL MEDICINE, SURGERY, PAEDIATRICS, ENT, OPHTHALMOLOGY AND PHARMACOLOGY

Q.P. Code: 786156

Time: Three hours **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

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

1. List the etiological agents and outline the symptoms, complications and management of Pneumonia.

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

1. Narcotic analgesics
2. Patent ductus arteriosus
3. Atrial Septal Defect
4. Filaria

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

1. Vitamin A deficiency
2. Mental retardation
3. Malnutrition
4. Heparin
5. B12 deficiency anemia

SECTION – B

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

1. Describe the field defects arising from the lesions in the visual pathway, their symptoms and the methods of testing.

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

1. Post operative complications in hysterectomy.
2. Post operative complications in Prostatectomy.
3. Vestibular apparatus.
4. 'Rule of Nine' in burns.

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

1. Audiometry.
2. Common ENT infections.
3. Extra ocular muscles.
4. Ear ossicles.
5. Color blindness.

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[LK 6156] FEBRUARY 2017 **Sub. Code: 6156**

BOT EXAMINATION
SECOND YEAR
PAPER – II GENERAL MEDICINE, SURGERY, PAEDIATRICS, ENT, OPHTHALMOLOGY AND PHARMACOLOGY

Q.P. Code: 786156

Time: Three hours **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

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

1. Describe the etiology, pathology, clinical features and treatment of Pulmonary Tuberculosis.

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

1. Pulmonary embolism.
2. Primitive reflexes.
3. Immunization schedule.
4. Hypothyroidism.

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

1. Gowers's sign.
2. Routes of drug administration.
3. Heparin.
4. Source of infection.
5. Pigeon chest.

SECTION – B

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

1. Discuss the various surgical incisions in detail. Outline the post operative complications of Cholecystectomy.

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

1. Audiometry.
2. Vitamin "A" deficiency.
3. Hearing Aids.
4. Post operative complications of Thyroidectomy.

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

1. Ear ossicles.
2. Keratitis.
3. Classifications of burns.
4. Optic chiasma.
5. Acute Suppurative Otitis Media (ASOM).

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[LL 6156] AUGUST 2017 **Sub. Code: 6156**

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2013-2014 onwards)
SECOND YEAR
PAPER – II GENERAL MEDICINE, SURGERY, PAEDIATRICS, ENT, OPHTHALMOLOGY AND PHARMACOLOGY

Q.P. Code: 786156

Time: Three hours **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

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

1. Discuss the etiology, clinical features, complications and management of Osteoarthritis Knee.

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

1. Routes of drug administration.
2. Heparin.
3. Drug therapy and Parkinsonism.
4. Gestational diabetes.

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

1. Spina bifida.
2. Perinatal causes for cerebral palsy.
3. AIDS.
4. Haemophilia.
5. Fallot's tetrology.

SECTION – B

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

1. How will you treat a child who has 40% burns due to hot water spillage?

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

1. Glaucoma.
2. Vestibular apparatus.
3. Post operative complications following Mastectomy.
4. Cataract.

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

1. Conjunctivitis.
2. Hemianopia.
3. Chronic Suppurative Otitis Media (CSOM).
4. Lagophthalmos.
5. III Nerve Palsy.

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

[LM 6156] FEBRUARY 2018 **Sub. Code: 6156**

BOT DEGREE EXAMINATION
(Regulations for the candidates admitted from 2013-2014 onwards)
SECOND YEAR
PAPER – II GENERAL MEDICINE, SURGERY, PAEDIATRICS, ENT, OPHTHALMOLOGY AND PHARMACOLOGY

Q.P. Code: 786156

Time: Three hours **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book

SECTION – A

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

1. Discuss the etiology, clinical features and management of Duchenne Muscular Dystrophy.

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

1. Megaloblastic anemia.
2. Anticoagulants.
3. ASD (Atrial Septal defect).
4. Parkinsonism.

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

1. Causes of acute flaccid paralysis in children.
2. Cyanosis.
3. Types of diabetes.
4. Presbyacussis.
5. Barrel chest.

SECTION – B

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

1. Briefly describe splinting methods for prevention of burns contractures.

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

1. Split skin graft.
2. National immunisation schedule.
3. Visual pathway.
4. Complications of mastectomy.

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

1. Name four abdominal surgical incisions.
2. Schedule of immunisation for Oral Polio Vaccine.
3. List four causes of hearing loss.
4. Clinical features of heart failure.
5. Clubbing.

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[LJ 6176] AUGUST 2016 **Sub. Code : 6176**

SECOND YEAR BOT EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
PAPER II – GENERAL MEDICINE SURGERY AND PAEDIATRICS, ENT, OPHTHALMOLOGY, PHARMACOLOGY

Q.P. Code: 786176

Time: Three hours **Maximum: 50 Marks**

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A

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

1. Define Muscular Dystrophy. Briefly describe the clinical features, and management of Duchenne Muscular Dystrophy.

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

1. Cushing's syndrome
2. Patent Ductus arteriosus
3. Anti-coagulants
4. Megaloblastic anemia

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

1. Define Emphysema
2. Funnel chest
3. Microcephaly
4. Athetosis
5. Postural Drainage

SECTION-B

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

1. List the potential deformities due to Burns of the lower limb, methods of prevention & functional treatment measures.

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

1. Glaucoma
2. Pedicle graft
3. Progressive supranuclear palsy
4. Middle Ear

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

1. Lagophthalmos
2. Ossicles
3. Pfannenstiel incision.
4. List four complications of Thyroidectomy
5. Bitot's spots

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[LK 6176] FEBRUARY 2017 **Sub. Code : 6176**

BOT EXAMINATION
SECOND YEAR
(New Regulations for the candidates admitted from 2014-2015 onwards)
PAPER II – GENERAL MEDICINE SURGERY AND PAEDIATRICS, ENT, OPHTHALMOLOGY, PHARMACOLOGY

Q.P. Code: 786176

Time: Three hours **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A

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

1. What is Ischemic Heart Disease? Describe in detail the clinical features, investigations and management of Myocardial Infarction.

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

1. Clinical features of Hemophilia.
2. Bronchitis.
3. Obesity.
4. Kyphoscoliosis.

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

1. Corticosteroids.
2. Types of cerebral palsy.
3. Rickets.
4. Pigeon chest deformity.
5. Patent Ductus Arteriosus (PDA).

SECTION-B

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

1. Discuss in detail the post operative complications of Appendicectomy, Thyroidectomy.

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

1. Deformities due to burns.
2. Audiometry.
3. Vestibular apparatus.
4. Sinusitis.

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

1. Inner ear.
2. Trachoma.
3. Conjunctivitis.
4. Conductive deafness.
5. Nasal septum.

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[LL 6176] AUGUST 2017 **Sub. Code : 6176**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER II – GENERAL MEDICINE SURGERY AND PAEDIATRICS, ENT, OPHTHALMOLOGY, PHARMACOLOGY

Q.P. Code: 786176

Time: Three hours **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A

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

1. Discuss in detail the etiology, clinical features, investigations and management of Rheumatoid Arthritis.

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

1. Bronchial asthma.
2. Iron deficiency anemia.
3. Neonatal reflexes.
4. Deep vein thrombosis (DVT).

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

1. Atrial Septal Defect (ASD).
2. Tetanus.
3. Spina bifida.
4. Diclofenac.
5. Pulmonary embolism.

SECTION-B

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

1. Discuss in detail the post operative complications of Mastectomy and Cholecystectomy.

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

1. Hearing Aids.
2. Cataract.
3. Rule of nine in Burns.
4. Extra ocular muscles.

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

1. Cochlea.
2. Horner’s syndrome.
3. Sensory deafness.
4. Hemianopia.
5. Lacrimal gland.

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

[LM 6176] FEBRUARY 2018 **Sub. Code : 6176**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER II – GENERAL MEDICINE SURGERY AND PAEDIATRICS, ENT, OPHTHALMOLOGY, PHARMACOLOGY

Q.P. Code: 786176

Time: Three hours **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A

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

1. What is Bronchiectasis? Describe in detail the pathology, clinical features, investigations and management of Bronchiectasis.

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

1. AIDS.
2. B_{12} deficiency anemia.
3. Causes for cerebral palsy.
4. Fallot's tetrology.

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

1. Streptomycin.
2. Types of diabetes.
3. Gower's sign.
4. Funnel chest deformity.
5. Pressure sore.

SECTION-B

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

1. Discuss in detail the various Abdominal incisions.

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

1. Classification of burns.
2. Visual pathway.
3. Chronic suppurative Otitis Media.
4. Causes for hearing loss.

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

1. Middle ear.
2. Glaucoma.
3. Vertigo.
4. Lagophthalmos.
5. Color blindness.

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

[LN 6176] AUGUST 2018 **Sub. Code : 6176**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER II – GENERAL MEDICINE SURGERY AND PAEDIATRICS, ENT, OPHTHALMOLOGY, PHARMACOLOGY

Q.P. Code: 786176

Time: Three hours **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A

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

1. Outline the pathogenesis, clinical features of Pulmonary Embolism and Deep Venous Thrombosis.

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

1. Prevention of infection.
2. Clinical features of Haemophilia.
3. Ventricular Septal Defect.
4. Acute Renal Failure.

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

1. Meningomyelocele.
2. List types of Pneumonia.
3. Herpex simplex.
4. Osteoarthritis.
5. Anti hypertensive drugs.

SECTION-B

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

1. Post operative complications of Thyroidectomy and Appendicectomy.

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

1. Deformities due to Burns and its prevention.
2. Complications of Diabetes Mellitus.
3. Abdominal Surgical incisions.
4. Pressure sores.

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

1. Benign Prostatic Hypertrophy.
2. Hemianopia.
3. Otitis Media.
4. Gastro Esophageal Reflux Disease.
5. Tetanus.

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

[LO 6176] FEBRUARY 2019 **Sub. Code : 6176**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER II – GENERAL MEDICINE SURGERY AND PAEDIATRICS, ENT, OPHTHALMOLOGY, PHARMACOLOGY

Q.P. Code: 786176

Time: Three hours **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A

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

1. Describe the etiology, pathology, clinical features and diagnosis of Tuberculosis.

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

1. Hepatitis B.
2. Angina Pectoris.
3. Systemic Lupus Erythematosis.
4. Shock.

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

1. Fallot's Tetralogy.
2. Kyphoscoliosis.
3. Rheumatic Fever.
4. Addison's Disease.
5. Gastro oesophagial reflux disease.

SECTION-B

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

1. Describe various Abdominal incisions in detail, including their indications, and complications.

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

1. Burns contractures.
2. Gestational Diabetes.
3. Immunization schedule.
4. Functions of vestibular apparatus.

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

1. Diuretics.
2. Vitamin A deficiency.
3. Herniorraphy.
4. Neonatal infections.
5. Meniere's disease.

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

[LP 6176] AUGUST 2019 **Sub. Code : 6176**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER II – GENERAL MEDICINE SURGERY AND PAEDIATRICS, ENT, OPHTHALMOLOGY, PHARMACOLOGY

Q.P. Code: 786176

Time: Three hours **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A

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

1. Classify Bleeding disorders. Discuss the clinical features, diagnosis and management of Hemophilia.

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

1. Acquired Immune Deficiency Syndrome [AIDS].
2. Osteoarthritis – etiology and clinical features.
3. Chest wall deformities.
4. Types of Pneumonia.

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

1. Anemia.
2. Name any two anti-hypertensive drugs.
3. Nosocomial infections.
4. Hypoglycaemia.
5. Hypnotics.

SECTION-B

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

1. Classify Burns by depth and surface area. Outline medical management and precaution in the early stage.

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

1. Post-operative complication of Mastectomy.
2. Visual disability evaluation.
3. Audiometry in assessment of hearing.
4. Vestibular apparatus.

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

1. Common ENT infections.
2. Vitamin-A deficiency.
3. Oral polio vaccine.
4. Leprosy.
5. Define Pharmacodynamics.

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

[LQ 6176] FEBRUARY 2020 **Sub. Code : 6176**

BOT DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2014-2015 onwards)
SECOND YEAR
PAPER II – GENERAL MEDICINE SURGERY AND PAEDIATRICS, ENT, OPHTHALMOLOGY, PHARMACOLOGY

Q.P. Code: 786176

Time: Three hours **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A

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

1. Define Bronchial Asthma. Describe the etiology, clinical features, investigation and management of Bronchial Asthma.

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

1. Herpes Zoster.
2. Pernicious anemia.
3. Deep vein Thrombosis.
4. Acute Renal Failure.

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

1. Polymyositis.
2. Nosocomial infection.
3. Dysphagia.
4. Pneumoconiosis.
5. Types of Insulin.

SECTION-B

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

1. Describe the Post Operative complications of Thyroidectomy and Hysterectomy.

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

1. Parkinsonism.
2. Auto Immune Disease.
3. Cataract.
4. Chronic Suppurative Otitis Media.

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

1. Aspirin.
2. Trachoma.
3. Rickets.
4. Hydrocephalus.
5. Skin grafting.

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

[LR 1220] DECEMBER 2020 Sub. Code: 6176
(AUGUST 2020 EXAM SESSION)

BOT DEGREE EXAMINATION
SECOND YEAR
(New regulations for the candidates admitted from 2014-2015 onwards)
PAPER II – GENERAL MEDICINE SURGERY AND PAEDIATRICS, ENT, OPHTHALMOLOGY, PHARMACOLOGY (SEC A & SEC B)
Q.P. Code: 786176

Time: Three hours **Answer ALL Questions** **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A

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

1. Describe etiology, clinical features, complication and management of Osteoarthritis.

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

1. Obesity – Define and outline management.
2. Outline pathogenesis and clinical features of pulmonary embolism.
3. Discuss the types and clinical features of muscular dystrophy.
4. Outline the causes and prevention of measles.

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

1. Addison's disease.
2. Autoimmune disease.
3. Cyanosis.
4. Parkinsonism.
5. Non-steroidal anti-inflammatory drugs.

SECTION-B

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

1. Discuss the various surgical incisions in detail. Outline the post-operative complications of Cholecystectomy.

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

1. Classifications of Burns.
2. Causes of failing vision.
3. Gross and Fine motor development from the age of 5 to 10 years.
4. Outline common ENT infections, diseases and their management.

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

1. Parmacokinetics.
2. Microcephaly.
3. High risk Pregnancies.
4. Vasodilators.
5. Anxiety states.

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

[BOT 0921] SEPTEMBER 2021 Sub. Code: 6176
(FEBRUARY 2021 EXAM SESSION)

BOT DEGREE EXAMINATION
SECOND YEAR - (Regulations for the candidates admitted from 2014-2015 onwards)
PAPER II – GENERAL MEDICINE SURGERY AND PAEDIATRICS, ENT, OPHTHALMOLOGY, PHARMACOLOGY (SEC A & SEC B)
Q.P. Code: 786176

Time: Three hours **Answer ALL Questions** **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A

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

1. Define and discuss the clinical features, diagnosis and management of Chronic Obstructive Pulmonary disease.

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

1. Urinary tract infection.
2. Secondary Hypertension.
3. Classification of Cerebral Palsy.
4. Growth and development of a two-year-old child.

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

1. Scleroderma.
2. Tetanus.
3. Anti-inflammatory agents.
4. Chemotherapy.
5. High risk pregnancy.

SECTION-B

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

1. Outline Plastic surgery procedures and management in Rehabilitation of burns including Splint methods for common deformities.

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

1. Outline the anatomy and physiology of hearing.
2. Incisions for Appendicectomy.
3. Complications of Hysterectomy.
4. Assessment of 3rd Cranial nerve.

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

1. Occular muscles.
2. Hearing Aids.
3. Skin grafts.
4. Glaucoma.
5. Functions of middle ear.

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

[BOT 0122] JANUARY 2022 Sub. Code: 6176
(AUGUST 2021 EXAM SESSION)

BACHELOR OF OCCUPATIONAL THERAPY DEGREE COURSE
SECOND YEAR - (Regulations for the candidates admitted from 2014-2015 onwards)
PAPER II – GENERAL MEDICINE SURGERY AND PAEDIATRICS, ENT, OPHTHALMOLOGY, PHARMACOLOGY (SEC A & SEC B)
Q.P. Code: 786176

Time: Three hours **Answer ALL Questions** **Maximum: 100 Marks**

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A

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

1. What is Bronchial Asthma? Discuss the etiology, clinical features, investigation and management of Bronchial Asthma.

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

1. Deep vein Thrombosis.
2. Acute Renal Failure.
3. Chest wall deformities.
4. Ventricular Septal Defect. (VSD)

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

1. Meningomyelocele.
2. Pressure sore.
3. Pulmonary embolism.
4. Complications of hypertension.
5. Clinical features of tuberculosis.

SECTION-B

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

1. What are the various abdominal surgical incisions? Discuss in detail the post operative complications of Appendicectomy, Thyroidectomy.

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

1. Audiometry.
2. 'Rule of Nine' in burns.
3. Eye lesions in leprosy.
4. Chronic suppurative otitis media.

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

1. Vertigo.
2. Vestibular apparatus.
3. Glaucoma.
4. Extra ocular muscles.
5. Lagophthalmus.

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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.

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[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 (Max.)**	**Time (Max.)**	**Marks (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

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[LC 6155] **FEBRUARY 2013** **Sub. Code: 6155**

SECOND YEAR BOT EXAM

Paper – I MICROBIOLOGY/ PATHOLOGY

Q.P. Code: 786155

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

(180 Min)

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.

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[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. Oppurtunistic infection in HIV
4. Diseases caused by Asbestos exposture.
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.

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[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. Typhiod fever.

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

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

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[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

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[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

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[LH 6155] **AUGUST 2015** **Sub. Code: 6155**

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. Histioid 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.

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[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.

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[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.

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[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.

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[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.

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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.

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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.

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[LO 6155] FEBRUARY 2019 **Sub. Code : 6155**

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PAPER I – PATHOLOGY & MICROBIOLOGY

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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.

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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 it 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.

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[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.

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