

BACHELOR IN PROSTHETICS AND ORTHOTICS

FIRST YEAR

PAPER I – ANATOMY

Q.P. Code: 802451

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe the Hip joint under the following headings:
(a) Type (b) Articulation (c) Ligaments (d) Movement.
2. Describe the stomach under the following headings: (a) Parts
(b) External and internal features (c) Blood supply (d) Applied aspect.
3. Describe the kidney under the following headings: (a) location (b) External
features (c) Cross sectional appearance (d) Blood supply (e) Applied aspect.

II. Write notes on:

(8 x 5 = 40)

1. Intercostal muscles.
2. Median nerve.
3. Gluteus maximus.
4. Movements of shoulder joint.
5. Pericardium.
6. Fibrous joint.
7. Cubital fossa.
8. Conducting system of heart.

III. Short answers on:

(10 x 3 = 30)

1. Give three examples of secondary cartilaginous joints.
2. List any three muscles of hamstring group.
3. List three muscles supplied by ulnar nerve.
4. List the parts of large intestine.
5. Name the three major arteries supplying the heart.
6. List the muscles of anterior compartment of leg.
7. List three contents of femoral triangle.
8. List the parts of hip bone.
9. Name the arches of foot.
10. Name any three contents of axilla.

[LP 0819]

AUGUST 2019

Sub. Code: 2451

BACHELOR IN PROSTHETICS AND ORTHOTICS

FIRST YEAR

PAPER I – ANATOMY

Q.P. Code: 802451

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe the Small intestine under the following headings: (a) Parts
(b) External and internal features (c) Blood supply (d) Applied aspect.
2. Describe the thoracic diaphragm under the following headings: (a) Origin
and insertion, (b) nerve supply (c) action (d) openings in the diaphragm.
3. Describe the Shoulder joint under the following headings:
(a) Type (b) Articulation (c) Ligaments (d) Movement.

II. Write notes on:

(8 x 5 = 40)

1. Ligaments of knee.
2. Blood supply of heart.
3. Ulnar nerve.
4. Quadriceps femoris
5. Popliteal fossa.
6. Haversian system of bone.
7. Secondary cartilaginous joints.
8. Triceps brachii.

III. Short answers on:

(10 x 3 = 30)

1. List the contents of axilla.
2. List three contents of femoral triangle.
3. Pleural cavity.
4. List three ligaments of hip joint.
5. Adductors of the hip joint.
6. Names three muscles of hand supplied by median nerve.
7. List the parts of stomach.
8. Name the terminal branches of brachial artery.
9. Give three examples of fibrous joints.
10. Pronators of the hand.

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

[AHS 0321]

MARCH 2021

Sub. Code: 2451

(AUGUST 2020 EXAM SESSION)

BACHELOR IN PROSTHETICS AND ORTHOTICS

FIRST YEAR (Regulation 2017-2018)

PAPER I – ANATOMY

Q.P. Code : 802451

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Write about hip Joint.
2. Types of Joints in a human body.
3. Explain anatomy of heart with diagram.

II. Write notes on:

(8 x 5 = 40)

1. Significance of the Arches of the foot.
2. Write about Femoral Triangle.
3. Nerve Supply and functions of Urinary Bladder.
4. Axis and Planes of the human Body.
5. Lymphatic drainage of the lower limb.
6. Muscles that originate and insert into the Scapula.
7. Origin, Insertion, Nerve supply and action of Diaphragm.
8. Write about Ulnar Nerve.

III. Short answers on:

(10 x 3 = 30)

1. Carpal bones.
2. Sesamoid Bone.
3. Cubital Fossa.
4. Elbow Joint.
5. Cartilage.
6. Types of Connective Tissue.
7. Lobes of the lung.
8. Pronation.
9. Tensor Fascia Lata.
10. Interosseous Membrane.

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

[AHS 0422]

APRIL 2022

Sub. Code: 2451

(FEBRUARY 2021 & AUGUST 2021 EXAM SESSIONS)

BACHELOR IN PROSTHETICS AND ORTHOTICS

FIRST YEAR (Regulations 2017-2018)

PAPER I– ANATOMY

Q.P NO. 802451

Time: Three Hours

Answer All questions

Maximum : 100 Marks

I. Elaborate on :

(3X10=30)

1. Describe in detail about Knee joint under the following headings:
a) Type b) Articulation c) Ligaments d) Movements
e) Applied anatomy.
2. Describe in detail about Ulnar nerve under the following headings:
a) Formation b) Course c) Branches d) Applied anatomy.
3. Describe in detail about Right Lung under the following headings:
a) Borders and surfaces b) Fissures and lobes c) Applied anatomy.
Add a note on bronchopulmonary segments.

II. Write Notes on :

(8X5=40)

1. Attachments, nerve supply and action of Diaphragm.
2. Erb's palsy.
3. Classification of bone.
4. Blood supply of heart.
5. External features of stomach.
6. Rotator cuff muscles.
7. Types of synovial joint.
8. Venous drainage of upper limb.

III. Short Answers on :

(10X3=30)

1. List the types of simple epithelium.
2. List the subdivisions of mediastinum.
3. List the cardinal planes of human body.
4. List the muscles attached to the medial border of scapula.
5. List the contents of femoral triangle.
6. Parts of mandible.
7. List the branches of arch of aorta.
8. Types of connective tissue.
9. List the muscles of front of arm.
10. List the contents of inguinal canal, in males.

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

[AHS 1122]

NOVEMBER 2022

Sub. Code: 2451

**BACHELOR IN PROSTHETICS & ORTHOTICS
FIRST YEAR (Regulation 2017-2018)
PAPER I – ANATOMY
Q.P NO. 802451**

Time: Three Hours

Answer All questions

Maximum : 100 Marks

I. Elaborate on : (3X10=30)

1. Describe in detail about Arches of foot.
2. Describe in detail about Median nerve under the following headings:
a) Formation b) Course c) Branches d) Applied anatomy.
3. Describe in detail about Radio-ulnar joints.

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

1. Femoral artery.
2. Biceps brachii.
3. Foot drop.
4. Classification of Muscle.
5. Pericardium.
6. Urinary bladder.
7. Ligaments of knee joint.
8. Venous drainage of lower limb.

III. Short Answers on : (10X3=30)

1. List the types of cartilage.
2. List the arteries that supply the heart.
3. Origin of diaphragm.
4. Define normal anatomical position.
5. List the muscles attached to ischial tuberosity.
6. List the contents of popliteal fossa.
7. Parts of scapula.
8. Boundaries of adductor canal.
9. List the carpal bones.
10. List the fissures and lobes of lungs.

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

[AHS 0423]

APRIL 2023

Sub. Code: 2451

BACHELOR IN PROSTHETICS & ORTHOTICS

FIRST YEAR (Regulation 2017-2018 onwards)

PAPER I – ANATOMY

Q. P. Code: 802451

Time: Three hours

Maximum : 100 Marks

Answer ALL Questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe the Arches of Foot under the following headings:
(a) Classification (b) Formation (c) Supports
(d) Functions (e) Applied Anatomy.
2. Describe the Median Nerve under the following headings:
(a) Origin and termination (b) Root value (c) Course and Relations
(d) Branches and Distribution (e) Applied Anatomy.
3. Explain Valves of the Heart with diagram. Add a note on the blood supply of the Heart.

II. Write notes on:

(8 x 5 = 40)

1. Cubital fossa.
2. Openings of diaphragm.
3. Adductor canal.
4. Sciatic nerve.
5. Gluteus maximus.
6. Mediastinum.
7. Types of bone.
8. Inversion and Eversion.

III. Short answers on:

(10 x 3 = 30)

1. Parts of small intestine.
2. Types of elementary tissues of Human body.
3. Muscles attached to the coracoid process of Scapula.
4. Fibrous joints.
5. Muscles involved in foot drop.
6. Name the branches of Femoral nerve.
7. Nerve supply of Lumbricals in hand.
8. Carpal bones.
9. Branches of Arch of Aorta.
10. Supination.

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 2451

BACHELOR IN PROSTHETICS AND ORTHOTICS

FIRST YEAR (Regulation 2017-2018 onwards)

PAPER I – ANATOMY

Q.P. Code: 802451

Time: Three Hours

Answer All questions

Maximum : 100 Marks

I. Elaborate on :

(3X10=30)

1. Describe in detail about Ankle joint under the following headings:
 - a) Type
 - b) Articulation
 - c) Ligaments
 - d) Movements
 - e) Applied Anatomy.
2. Describe in detail about Radial Nerve under the following headings:
 - a) Formation
 - b) Course
 - c) Branches
 - d) Applied Anatomy.
3. Describe in detail about Popliteal Fossa.

II. Write Notes on:

(8X5=40)

1. Sartorius.
2. Valves of the heart.
3. Movements of shoulder joint.
4. Wrist drop.
5. Classification of joints.
6. Blood supply of long bone.
7. Parts of a vertebra.
8. Brachial artery.

II. Short Answers on :

(10X3=30)

1. List the types of Neuron, based on Polarity.
2. List the Chambers of the Heart.
3. List the Intercostal Muscles.
4. Blood supply of Kidney.
5. List the muscles attached to the Linea Aspera of Femur.
6. List the contents of Cubital fossa.
7. Parts of Sternum.
8. Formation of Tendocalcaneus.
9. List the Tarsal Bones.
10. List the major openings in the Diaphragm.

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

[AHS 0424]

APRIL 2024

Sub. Code: 2451

BACHELOR IN PROSTHETICS AND ORTHOTICS

FIRST YEAR (Regulation 2017-2018 onwards)

PAPER I – ANATOMY

Q.P. Code: 802451

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe in detail about Left Lung under the following headings:
(a) Borders and Surfaces (b) Fissures and Lobes (c) Applied Anatomy.
Add a note on Bronchopulmonary segments.
2. Describe in detail about the Shoulder joint under the following headings:
(a) Types and Variety (b) Articulating bones (c) Ligaments
(d) Movement and Muscles responsible.
3. Describe the Urinary Bladder under the following headings:
(a) Parts (b) Relations (c) Ligaments (d) Nerve supply.

II. Write notes on:

(8 x 5 = 40)

1. Popliteal fossa.
2. Muscular tissue.
3. Rotator cuff muscles.
4. Brachial artery.
5. Arches of Foot.
6. Relations of kidney.
7. Sartorius.
8. Menisci of Knee joint.

III. Short answers on:

(10 x 3 = 30)

1. Contents of Femoral triangle.
2. Bones of the Skull.
3. Biaxial joints.
4. Tendo Calcaneus.
5. Wrist joint.
6. Intercostal muscles.
7. Carpal Tunnel Syndrome.
8. Cartilaginous joints.
9. Types of Neurons.
10. Actions of Deltoid.

BACHELOR IN PROSTHETICS AND ORTHOTICS

FIRST YEAR (Regulation 2017-2018 onwards)

PAPER I – ANATOMY

Q.P. Code: 802451

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe the Heart under the following headings:
(a) External features (b) Internal features
(c) Pericardium (d) Blood supply.
2. Describe Knee Joint under the following headings:
(a) Type and subtype (b) Articulating bones and surfaces
(c) Ligaments (d) Movements and Muscles producing them
(e) Nerve supply (f) Applied Anatomy.
3. Classify Joints giving suitable examples and draw diagrams for each.

II. Write notes on:

(8 x 5 = 40)

1. Triceps brachii.
2. Wrist drop.
3. Large intestine.
4. Blood supply of Long bone.
5. Movements of shoulder joint.
6. Cubital fossa.
7. Gluteus Medius.
8. Types of Epithelium.

III. Short answers on:

(10 x 3 = 30)

1. List three muscles of Anterior abdominal wall.
2. List the boundaries of Femoral triangle.
3. List the bones forming medial longitudinal arch of Foot.
4. List the parts of Hip bone.
5. List the parts of Small Intestine.
6. List three muscles of Anterior compartment of Leg.
7. List three muscles supplied by Ulnar nerve.
8. List the contents of Inguinal canal.
9. Name any three contents of Axilla.
10. List major branches of arch of Aorta.

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

[AHS 0425]

APRIL 2025

Sub. Code: 2451

BACHELOR IN PROSTHETICS AND ORTHOTICS

FIRST YEAR (Regulation 2017-2018 onwards)

PAPER I – ANATOMY

Q.P. Code: 802451

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe the Shoulder Joint under the following headings:
a) Type b) Articulation c) Ligaments d) Movement.
2. Describe the Mediastinum under the following headings:
a) Divisions b) Contents c) Applied aspects.
3. Describe the Large Intestine under the following headings:
a) Division b) Features c) Blood supply d) Applied aspects.

II. Write notes on:

(8 x 5 = 40)

1. Movements of Hip joint.
2. Conducting system of heart.
3. Ulnar nerve.
4. Gluteus maximus.
5. Cubital fossa.
6. Fibrous joints.
7. Triceps Brachii.
8. Great saphenous vein.

III. Short answers on:

(10 x 3 = 30)

1. List three contents of Axilla.
2. List three contents of femoral triangle.
3. Adductor canal.
4. List three ligaments of knee joint.
5. List any three muscles of Quadriceps group.
6. Name three muscles of hand supplied by median nerve.
7. List parts of small intestine.
8. Name three branches of femoral artery.
9. Types of Cartilage.
10. List parts of long bone.

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

[AHS 1125]

NOVEMBER 2025

Sub. Code: 2451

BACHELOR IN PROSTHETICS AND ORTHOTICS

FIRST YEAR (Regulation 2017-2018 onwards)

PAPER I – ANATOMY

Q.P. Code: 802451

Time: Three Hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe Hip joint :
 - a) Type
 - b) Articulating surfaces
 - c) Movements
 - d) Muscles producing those movements
 - e) Applied Anatomy.
2. Define Synovial joint, structure of a typical synovial joint and types of synovial joint.
3. Describe Stomach its ends, surfaces and relations and curvatures. Add a note on its nerve supply.

II. Write notes on:

(8 x 5 = 40)

1. Define Arches of hand.
2. Muscles of Pelvic floor.
3. Urinary bladder – location, surfaces and relations.
4. Cubital fossa.
5. Jejunum.
6. Epithelium and its classification.
7. Write the structures at hilum and blood supply of left kidney.
8. Dorsum of foot.

III. Short answers on:

(10 x 3 = 30)

1. Name any three muscles supplied by Median nerve.
2. List the parts of femur with net diagram.
3. Name any three contents in axilla.
4. Name the arteries supplying right and left lung.
5. List the parts of large intestine.
6. Boundary of femoral triangle.
7. Give three examples of sesamoid bones.
8. List three ligaments of hip joint.
9. Name the muscles which causes supination.
10. Name the valves present in the chambers of heart.
