[KU 905]   **Sub. Code: 6111**

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
First Year
Non-Semester Regulations
Second Semester New modified Regulations
(Common to all regulations)
(Common to BPT and BOT Examinations)
ANATOMY
Q.P. Code : 7461

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

Answer All questions
Draw suitable diagrams wherever necessary

I. Essays: **(2 x 15 = 30)**

1. Describe in detail the type, ligaments, Relations, Blood supply, Nerve supply and movements of knee joint.

2. Describe in detail about broncho pulmonary segments.

II. Short Notes: **(10 x 5 = 50)**

1. Superficial palmar arch.
2. Blood supply of pancreas.
3. Femoral Nerve in femoral triangle.
4. Inter vertebral disc.
5. Pericardium.
6. Supra renal glands.
7. Epiphysis.
8. Functional areas of brain.
9. Enumerate muscles of mastication: detail about masseter.
10. Internal Jugular vein.

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

1. Structure of bone.
2. Morphology of calf muscles.
3. Branches of external carotid artery.
4. Branches of posterior cord of brachial plexus.
5. Bursae around knee joint.
6. Nerve supply to sternocleido mastoid muscle.
7. Foramina of middle cranial fossa.
8. Enumerate the extra ocular muscles.
9. Name the foramina of diaphragm & their levels.
10. Level of costo diaphragmatic recess of pleura.

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BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
First Year
Non-Semester Regulations
Second Semester New modified Regulations
(Common to all regulations)
(Common to BPT and BOT Examinations)
ANATOMY
Q.P. Code : 7461

Time : Three hours   **Maximum : 100 marks**
Answer All questions
Draw suitable diagrams wherever necessary

I. Essays: **(2 x 15 = 30)**
   1. Describe in detail about the hip joint under the following headings:
     a) Type   b) Ligaments   c) Nerve supply   d) Blood supply
     e) movements   f) Relations.

   2. Explain arches of foot under the following headings:
     a) Classification   b) formation   c) Factors responsible for intenance
     d) functions.   Add a note on its applied anatomy.

II. Short Notes: **(10 x 5 = 50)**
   1. Deltoid.
   2. Basal ganglion.
   3. Inguinal Hernia.
   4. Ulnar Nerve in the fore arm.
   5. Supinator.
   6. Genes.
   7. Pitutary gland.
   8. Screw home movement.
   9. Scapular movements.
 10. Extra Hepatic biliary apparatus.

III. Short Answer: **(10 x 2 = 20)**
   1. Write any four branches of femoral artery.
   2. What are the structures in inter condylar area of tibia?
   3. Name the muscle producing locking and unlocking of knee joint.
   4. What are the branches of arch of aorta?
   5. Claw hand.
   6. Foot drop.
   7. Functions of cerebellum.
   8. Fibrous joint.
   9. Name the structures present in HILUM of right lung.
 10. Name the muscles attached in ischial tuberosity.

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BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
First Year
Non-Semester Regulations
Second Semester New modified Regulations
(Common to all regulations)
(Common to BPT and BOT Examinations)
ANATOMY
Q.P. Code : 7461

Time : Three hours   **Maximum : 100 marks**
Answer All questions
Draw suitable diagrams wherever necessary

I. Essays: **(2 x 15 = 30)**

1. Describe the heart under the following headings. Position, coverings, external and internal features, blood supply of the heart and nerve supply. Add a note on its applied anatomy.
2. Describe shoulder joint under the following headings. Articulating bones, Articular surfaces, Ligaments, Relation, Movements and the muscles producing them. Blood supply and nerve supply and applied anatomy.

II. Short Notes: **(10 x 5 = 50)**

1. Intercostal muscles.
2. Claw hand.
3. Types of Joint.
4. Circle of willis.
5. Supination and pronation.
6. Intervertebral disc.
7. Deep peroneal nerve.
8. Brachial artery.
9. Inguinal canal.
10. Lower end of humerus.

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

1. Name four branches of femoral nerve.
2. What are the intrinsic muscles of hand?
3. Name the muscles producing protraction and retraction of scapula.
4. Name the articular surface of elbow joint.
5. What are the structures passing deep to flexor retinaculum of ankle?
6. Name the arterial supply of thyroid gland.
7. Name the extraocular muscles supplied by occulomotor nerve.
8. Name the muscle producing protraction and retraction of temperomandibular joint.
9. What are the parts of corpus callosum?
10. Name the muscles attached to intertubercular sulcus of humerus.

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[KX 905]   Sub. Code : 6111

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
First Year Non-Semester Regulations
Second Semester New modified Regulations
(Common to all regulations)
(Common to BPT and BOT Examinations)
ANATOMY
Q.P. Code : 746111

Time : Three hours   Maximum : 100 marks

ANSWER ALL QUESTIONS
Draw suitable diagrams wherever necessary.

I. Essays: (2X15=30)

1. Explain Hip Joint under the following headings : a) Articulating bones b) Ligaments c) Relations d) Nerve Supply e) Blood Supply f) Applied Anatomy.
2. Describe the Radial Nerve under the following headings: a) Origin b) Root Value c) Course and relation d) Branches and Distribution e) Applied Anatomy.

II. Short Notes: (10X5=50)

1. Common peroneal nerve.
2. Oesophagus.
3. Femoral sheath.
4. Supports of uterus.
5. Openings of the diaphragm.
6. Great Saphenous Vein.
7. Erb's palsy.
8. Blood supply of spinal cord.
9. Describe a typical Vertebra.
10. Gluteus Maximus.

III. Short Answers: (10X2=20)

1. Name the muscles of the Eye ball.
2. Structures opening into right atrium of the Heart.
3. Ligamentum Patellae.
4. Bell's palsy.
5. Name the types of Joints.
6. Supination.
7. Nephron.
8. Coronary artery.
9. Name the structures present in hilum of right Lung.
10. Posterior relations of right Kidney.

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[KY 905]   Sub. Code : 6111

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION

First Year Non-Semester Regulations
Second Semester New modified Regulations
(Common to all regulations)
(Common to BPT and BOT Examinations)
ANATOMY
Q.P. Code : 746111

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I.   Essays :   (2 × 15 = 30)

1.   Explain shoulder joint under the following headings

   (a)   Articulating bones

   (b)   Ligaments

   (c)   Stability factors

   (d)   Applied anatomy

   (e)   Blood supply

   (f)   Nerve supply.

2.   Describe ulna Nerve under the following headings

   (a)   Origin

   (b)   Root value

   (c)   Course and relation

   (d)   Branches and distribution

   (e)   Applied anatomy.

II.   Short notes :   (10 × 5 = 50)

1.   Cubital fossa.

2.   Special features of clavicle

3.   Serratus Anterior

4.   Femoral sheath

5.   Foot drop

6. Anastomosis around the scapula.

7. Anterior Abdominal muscles – Formation of rectus sheath.

8. Thoracic Dush.

9. Abductar of the hip joint

10. Popliteus muscle.

III. Short Answers : (10 × 2 = 20)

1. Erb's palsy

2. Pronation

3. Radial Nerve's supply below the wrist.

4. Ligamentum Patellae

5. Rough Endoplasmic Reticulum.

6. Anterior relations of Right Kidney

7. Adductar canal

8. Left Coronary artery

9. Pericardium

10. Elastic cartilage.

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[KZ 6252]   Sub. Code : 6252

BACHELOR OF PHYSIOTHERAPY EXAMINATION

FIRST YEAR
(Common to BPT and BOT Examinations)

Paper II - ANATOMY
Q.P. Code : 746252

Time : Three hours   **Maximum : 100 marks**
ANSWER ALL QUESTIONS

I. LONG ESSAYS   (2X20=40)

1. Write in Detail about Arches of Foot along with its applied anatomy.

2. Describe in detail about Brachial plexus under the following headings:
   a) Formation b) Branches c) Applied Anatomy.

II. SHORT NOTES   (8X5=40)

1. Popliteal Fossa.
2. Sternal Angel.
3. Foot Drop.
4. Blood supply of Heart.
5. Anatomical snuff Box.
6. Median nerve.
7. Biceps Brachii.
8. Temporomandibular joint.

III. SHORT ANSWERS   (10X2=20)

1. What are Sesamoid bones? Give two examples.
2. Name the tributaries of coronary sinus.
3. Name the muscles supplied by Ulnar Nerve in hand.
4. Name any four branches of Abdominal Aorta.
5. What is Claw hand?
6. Name the parts of Typical Rib.
7. Name the named openings present in Thoracic diaphragm.
8. Name the Extensor of Knee joint.
9. Name the contents of cubital Fossa.
10. Name the branches of Mandibular Nerve.

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[LA 6252]   Sub. Code: 6252
BACHELOR OF PHYSIOTHERAPY EXAMINATION

FIRST YEAR
(Common to BPT and BOT Examinations)
Paper II - ANATOMY
Q.P. Code : 746252

Time : Three hours   Maximum : 100 marks
ANSWER ALL QUESTIONS

I. Elaborate on: (2X20=40)

1.   Describe in detail about shoulder joint under the following headings :
       a) Type of joint, b) Articulating bones, ligaments c) Relations d) Movements
       e) Nerve supply f) Applied anatomy.
2.   Describe in detail about Sciatic nerve. Add a note on its applied anatomy.

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

1.   Inversion and Eversion of Foot.
2.   Intercostal space and its contents.
3.   Sternocleido mastoid muscle.
4.   Popliteal Fossa.
5.   Pleura of Lung.
6.   Femoral Artery.
7.   Movements at Elbow joint.
8.   Inguinal canal.

III. Short Answers: (10X2=20)
1.   Name any four branches of External carotid Artery.
2.   Name the flexors of Knee joint.
3.   Name the Pelvic Bones.
4.   Name the Extra ocular Muscles.
5.   Name any four ligaments of Knee joint.
6.   Name the contents of vertebral canal.
7.   Name the parts of Brain.
8.   Name the structures supplied by median nerve.
9.   Name the structures passing through stylomastoid foramen.
10. Name the Intrinsic muscles of Hand.

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FIRST YEAR BPT EXAM
(Common to BPT and BOT Examinations)
Paper II - ANATOMY
Q.P. Code : 746252

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 in detail about Knee joint under the following headings. a)Type of Joint b)Articulating bones, ligaments c)Relations d)Movements e)Applied Anatomy.	19	33	20
2. Describe in detail about Radial Nerve including its Applied Anatomy.	19	33	20

II. Write notes on:

1. Lower end of Humerus.	3	8	5
2. Foot Drop.	3	8	5
3. Atlanto Axial Joint.	3	8	5
4. Supination and Pronation.	3	8	5
5. Gluteus Maximus Muscle.	3	8	5
6. Rectus Sheath.	3	8	5
7. Circle of Willis.	3	8	5
8. Cubital Fossa.	3	8	5

III. Short Answers:

1. Name any four branches of Brachial Artery.	1	5	2
2. Name the bones forming Wrist Joint.	1	5	2
3. Name the Invertors of Foot.	1	5	2
4. How Rotator cuff of Shoulder Joint is formed?	1	5	2
5. Name the structures opening into Right Atrium of Heart.	1	5	2
6. Classify the Joints.	1	5	2
7. Name the muscles of mastication.	1	5	2
8. Name the structures passing through foramen magnum.	1	5	2
9. Name the structures related to spiral groove of Humerus.	1	5	2
10. Name the Ear ossicles.	1	5	2

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FIRST YEAR BPT EXAM
(Common to BPT and BOT Examinations)
Paper II - ANATOMY
Q.P. Code : 746252

Time : Three hours   **Maximum : 100 marks**
       (180 Min)

I. Elaborate on: **(2X20=40)**
  1. Explain the Anatomy of Ear.
  2. Explain in detail about Rt.Lung.[Coverings,External features,
     impressions.Blood supply & Broncho pulmonary segments].

II. Write Notes on: **(8X5=40)**
  1. Sternum.
  2. Rotator cuff of shoulder joint.
  3. Cruciate ligaments of Knee.
  4. Radial Nerve.
  5. Great Saphenous Vein.
  6. Spinal Cord.
  7. Inter costal Muscles.
  8. Male Urethra.

III.Short Answers: **(10X2=20)**
  1. Nerve supply of Urinary Bladder.
  2. Name the Muscles of Pelvic floor.
  3. Organ of corti.
  4. Branches of posterior cord of Brachial plexus.
  5. Brain stem.
  6. Foramen Magnum.
  7. Coronary Sinus.
  8. Conducting system of heart.
  9. Nerves of Lumbar plexus.
 10. Carpal Bones.

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FIRST YEAR BPT EXAM
(Common to BPT and BOT Exam)
Paper II – ANATOMY
Q.P. Code: 746252

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

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

  1. Explain in detail about hip joint under the following headings a) Type of
     Joint b) Articulating bones c) Ligaments d) Movements e) Relations
     f) Blood supply and nerve supply. Add a note on its applied anatomy.

  2. Describe in detail about Ulnar nerve under the following headings a)Root
     value b) Course c) Branches d) Muscles supplied by it. e) Applied anatomy

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

  1. Lower end of Humerus
  2. Screw home movement
  3. Radial nerve
  4. Femoral Artery
  5. Muscles of Respiration
  6. Styloid process
  7. Blood supply of Brain
  8. Extraocular muscles

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

  1. Contents of cubital fossa
  2. Winging of Scapula
  3. Name the branches arising from Arch of Aorta
  4. Name the contents in Rectus sheath
  5. Name the Invertors and Evertors of foot
  6. Hilar structures of lung
  7. Name the muscles of mastication
  8. Contents of Carotid triangle
  9. Name the Ventricles of Brain
  10. Name the Flexors of Arm

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FIRST YEAR BPT EXAM
(Common to BPT and BOT Exam)
Paper II – ANATOMY
Q.P. Code: 746252

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

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

1. Write in detail about shoulder joint- Type, Articulating surfaces, Relations, Rotator cuff, Ligaments, movements, Muscles producing those movements & its applied anatomy.

2. Explain diaphragm under the following subdivisions i) Origin ii) Insertion iii) Blood supply iv) Nerve supply v) Action vi) Orifices present vii) Structures passing through it viii) Applied anatomy.

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

1. Define supination & pronation, its mechanism of action & muscles producing it.
2. Cubital Fossa
3. Lateral compartment of leg
4. Sciatic nerve
5. Sternocleidomastoid
6. Internal jugular vein
7. Rectus sheath
8. Circle of willis

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

1. Define sesamoid bone with two examples
2. Constrictions of ureter
3. Openings in right atrium
4. Branches of brachial artery
5. Saturday night palsy
6. Trendelenburg's sign
7. Any two features of atypical intercostal nerve
8. Structures passing through stylomastoid foramen
9. Frowining muscles
10. Achilles tendon

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FIRST YEAR BPT EXAM
PAPER II – ANATOMY
Q.P. Code: 746252

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

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

1. Describe in detail about the Facial nerve.

2. Describe in detail about the shoulder joint.

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

1. Wrist drop
2. Popliteal Fossa
3. Spleen
4. Levator ani
5. Inversion & Eversion
6. Movements of Thoracic cage
7. Right atrium
8. Broncho pulmonary segments of left lung

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

1. Name the branches of Axillary artery
2. Give formation of great saphenous Vein
3. Name the structures opening into second part of duodenum
4. Name the contents of middle mediastinum
5. Name the structures opening into the middle meatus of nose
6. Name the structures forming the medial longitudinal arch
7. Name the types of sulci in cerebrum
8. Name the major openings and the structures passing through the diaphragm
9. Erbs point
10. Name the branches of coeliac trunk

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FIRST YEAR BPT EXAMINATION
(Common to BOT and BPT Exam)
PAPER II – ANATOMY

Q.P. Code: 746252

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

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

1. Explain in detail about knee joint under the following headings:
   a) Type of Joint b) Articulating bones c) Ligaments d) Movements e) Relations
   f) Blood supply and nerve supply. Add a note on its applied anatomy.

2. Describe in detail about Radial nerve under the following headings: a) Root value
   b) Course c) Branches d) Muscles supplied by it. e) Applied anatomy.

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

1. Atlanto axial joint
2. Scapular movements
3. Intercostal space
4. Radial Artery
5. Visceral surface of Liver
6. Gluteal Surface of Ilium
7. Blood supply of Heart
8. Inversion and Eversion

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

1. Contents of Digastric triangle
2. Abductors of Shoulder joint
3. Name the branches arising from Abdominal Aorta
4. Name the muscles of tongue
5. Name the Hamstring muscles and its action
6. What is Bell's palsy?
7. Name the muscles of mastication
8. Contents of Rectus sheath
9. Name the parts of Brainstem
10. Name the extraocular muscles

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B.P.T. DEGREE EXAMINATION
FIRST YEAR
(Common to BOT and BPT Exam)
PAPER II – ANATOMY

Q.P. Code: 746252

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

Answer ALL questions

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

1. Explain in detail about hip joint under the following headings:
   a) Type of Joint   b) Articulating bones   c) Ligaments   d) Movements   e) Relations
   f) Blood supply and nerve supply. Add a note on its applied anatomy.

2. Describe in detail about Ulnar nerve under the following headings:
   a) Root value   b) Course   c) Branches   d) Muscles supplied by it.
   e) Applied anatomy.

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

1. Ischial tuberosity.
2. Screw home movement.
3. Intercostal space.
4. Features of Typical thoracic vertebra.
5. Muscles of Anterior Abdominal wall.
6. Gluteus Maximus.
7. Blood supply of Spinal cord.
8. Temporomandibular joint.

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

1. Contents of Popliteal fossa.
2. Winging of Scapula.
3. Name the branches arising from Brachial artery.
4. Name the contents in Rectus sheath.
5. Name the muscles of respiration.
6. Hilar structures of Kidney.
7. Name the muscles which produce Dorsiflexion of Ankle joint.
8. Contents of Carotid triangle.
9. Name the Ventricles of Brain.
10. Name the Flexors of forearm.

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FIRST YEAR BPT EXAMINATION
(Common to BOT and BPT Exam)
PAPER II – ANATOMY

Q.P. Code: 746252

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

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

1. Write in detail about Shoulder Joint under the following headings:-
   1) Type of joint   2) Articulating bones   3) Ligaments   4) Movements
   5) Muscles producing those movements   6) Its applied aspects.

2. Write in detail about the external features of Heart, its blood supply, nerve supply and its applied aspects.

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

1. Sternomastoid.
2. Adductor canal.
3. Vertebral artery.
4. Wrist joint.
5. Posterior division of obturator nerve.
6. Quadrangular space.
7. Clavicle.
8. Dermatome of upper limb.

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

1. Erb's paralysis.
2. Facial vein – formation and termination.
3. Arterial segments of kidney.
4. Types of Epiphysis.
5. Lumbar petits triangle.
6. Tarsal Tunnel Syndrome.
7. Trendelenberg's sign.
8. Structures passing through internal auditory meatus.
9. Sternal angle.
10. Contents of lower triangular space.

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FIRST YEAR BPT EXAMINATION
(Common to BOT and BPT Exam)
PAPER II – ANATOMY

Q.P. Code: 746252

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

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

1. Describe in detail about the arches of Foot.

2. Describe in detail about the functional areas of Brain.

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

1. Circle of willis
2. Pharynx
3. Muscles of tongue
4. Thyroid cartilage
5. External features of medulla oblungata
6. Pyriformis muscle
7. Pelvic diaphragm
8. Duputren's contracture

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

1. Formation and termination of short saphenous vein.
2. Cutaneous nerve supply of dorsum of foot.
3. 2nd lumbrical.
4. Palmar aponeurosis.
5. Branches of facial nerve in face.
6. Name the ossicles of ear and mention the joints in between them.
7. Paracentral lobule.
8. Boundaries of inter peduncular fossa.
9. Name the intrinsic muscles of larynx.
10. Maxillary sinus.

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BPT DEGREE EXAMINATION
FIRST YEAR
(Common to BOT and BPT Exam)
PAPER II – ANATOMY

Q.P. Code: 746252

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

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

   1. Describe in detail about the Knee joint.

   2. Describe in detail about Radial nerve.

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

   1. Foot drop.
   2. Cubital fossa.
   3. Blood supply of stomach.
   4. Quadriceps femoris.
   5. Relations of right kidney.
   6. Arch of aorta.
   7. Internal ear.
   8. Section of spinal cord at cervical level.

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

   1. Name the branches of ulnar artery.
   2. What is carpal tunnel syndrome?
   3. Write the origin, insertion, nerve supply and action of pectineus muscle.
   4. Structures passing below the superior extensor retinaculum.
   5. Formation and level of termination of inferior vena cava.
   6. Ventral branches of abdominal aorta.
   7. Name the features in interventricular septum.
   8. Parts of corpus callosum.
   9. Structures present in floor of IVth ventricle.
   10. Posterior cricoarytenoid muscle.

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BPT DEGREE EXAMINATION
FIRST YEAR
(Common to BOT and BPT Exam)
PAPER II – ANATOMY

Q.P. Code: 746252

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

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

1. List and locate the parts of female reproductive systems. Anatomy and function of female reproductive organs.

2. Write in detail about brachial plexus formation, branches and applied importance.

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

1. Joint classification and example.
2. Kidney.
3. Connective tissue.
4. Type of artery and give examples and write the function.
5. Spinal cord.
6. Trachea.
7. Liver.
8. Pituitary gland.

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

1. Name any two skull bones.
2. Arteries of fore arm.
3. Name any two cell bodies.
4. Name two medium sized vein.
5. Name two lymphatic organs.
6. Name any two salivary glands.
7. Name any two layers of eyeball.
8. Any two muscles of scapula.
9. Parts of pharynx.
10. Any two muscles of lower limb.

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BPT DEGREE EXAMINATION
FIRST YEAR
(Common to BOT and BPT Exam)
PAPER II – ANATOMY

Q.P. Code: 746252

Time: Three hours   Maximum : 100 Marks

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

1. Describe Temporomandibular joint under following headings:
   a) Type and variety of articulating bones and surfaces.
   b) Capsule and ligaments.
   c) Movements and muscles responsible for it.
   d) Blood supply and nerve supply.
   e) Applied anatomy.
2. Describe Axilla under following headings:-
   a) Position and shape   b) Boundaries   c) Contents in detail
   d) Applied anatomy

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

1. Biceps brachii.
2. Carpal tunnel.
3. Ankle joint.
4. Femoral artery.
5. Types of bones.
6. Brancho-pulmonary segment.
7. Sternocledomastoid.
8. Functional areas of brain.

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

1. Name the structures piercing clavipectoral fascia.
2. Name the branches of axillary artery.
3. Name the muscles supplied by median nerve in hand.
4. Name the contents of femoral triangle.
5. Name the structures passing deep to flexor retinaculum of foot.
6. Name the cavities of brain.
7. Origin and termination of common carotid artery.
8. Name the contents of middle mediastinum.
9. Name the parts of large intestine.
10. Name locking and unlocking muscles.

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[LN 6252]   **AUGUST 2018**   Sub. Code : 6252

BPT DEGREE EXAMINATION
FIRST YEAR
(Common to BOT and BPT Exam)
PAPER II – ANATOMY

Q.P. Code: 746252

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

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

1. Describe the Ulnar nerve under following headings:-
   a) Origin and termination   b) Root value   c) Course and relations
   d) Branches and distributions   e) Applied anatomy

2. Describe the arches of foot in detail.

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

1. Elbow joint.
2. Clavipectoral fascia.
3. Triceps surae.
4. Extensor retinaculum of foot.
5. Typical intercostals nerve.
6. Inguinal canal.
7. Synovial joints.
8. Formation and branches of Circle of Willis.

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

1. Name the branches of trigeminal nerve.
2. Name any four muscles around the mouth.
3. Name the muscles forming rectus sheath.
4. Name any four branches of abdominal aorta.
5. Formation and termination of cephalic vein.
6. Contents of carpal tunnel.
7. Name the muscles supplied by musculocutaneous nerve.
8. Name the dorsiflexor muscles of ankle joint.
9. Name any four structures under covered by gluteus maximus.
10. Name the branches of common peroneal nerve.

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

[LO 6252]   **FEBRUARY 2019**   Sub. Code : 6252

BPT DEGREE EXAMINATION
FIRST YEAR
(Common to BOT and BPT Exam)
PAPER II – ANATOMY

Q.P. Code: 746252

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

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

1. Describe Lumbar plexus and write in detail about femoral nerve.

2. Describe Shoulder joint under following headings:-
    a) Type and variety articulating bones and surfaces.
    b) Capsule and ligaments.
    c) Movements and muscles responsible for it.
    d) Blood supply and nerve supply.
    e) Applied anatomy.

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

1. Brachial artery.
2. Pronation and supination.
3. Adductor magnus.
4. Tibial nerve.
5. Right atrium of heart.
6. Urinary bladder.
7. Draw a labeled diagram of section of eye.
8. Facial nerve in face.

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

1. Name the structures forming anterior wall of axilla.
2. Contents of cubital fossa.
3. Name the spaces in hand.
4. Name the hamstring muscles.
5. Name the intracapsular structures in knee joint.
6. Name the parts of hind brain.
7. Name any four structures passing through foramen magnum.
8. Name the normal curvatures of vertebral column.
9. Name the major openings in diaphragm.
10. Name the structures in the first layer of sole.

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

[LP 6252]　　　　　　　　**AUGUST 2019**　　　　　　Sub. Code : 6252

BPT DEGREE EXAMINATION
FIRST YEAR
(Common to BOT and BPT Exam)
PAPER II – ANATOMY

Q.P. Code: 746252

Time: Three hours　　　　　　　　　　　　　　　Maximum : 100 Marks

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

1. Describe in detail about Spinal cord.

2. Describe in detail about Radial nerve under the following headings:
   a) Root value　　　　　b) Course　　　　　c) Branches
   d) Muscles supplied by it　　　e) Applied anatomy.

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

1. Locking and unlocking movements of knee joint.
2. Latissimus dorsi.
3. Superficial veins of Upper limb.
4. Anastomosis around elbow joint.
5. Blood supply of heart.
6. Root of lung.
7. Descent of testis.
8. Floor of fourth ventricle.

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

1. Sternal angle.
2. Parts of corpus callosum.
3. Constrictions of ureter.
4. Branches of celiac trunk.
5. Morison's pouch.
6. Respiratory movements.
7. Any 4 branches of mandibular nerve.
8. Porta hepatis.
9. Anatomical snuff box.
10. Lymph node.

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[LQ 6252] **FEBRUARY 2020** Sub. Code : 6252

BPT DEGREE EXAMINATION
FIRST YEAR
(Common to BOT and BPT Exam)
PAPER II – ANATOMY

Q.P. Code: 746252

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

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

1. Describe in detail about the Sulci, Gyri and functional areas of Superolateral surface of brain.

2. Describe in detail about Mammary gland. Add a note on its applied anatomy.

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

1. Inversion and eversion.
2. Palmar aponeurosis.
3. Types of muscles.
4. Masseter.
5. Stomach.
6. Rotator cuff of shoulder joint.
7. Vagus nerve.
8. Appendix.

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

1. Branches of external carotid artery.
2. Carrying angle.
3. Name the peroneal muscles.
4. Contents of femoral sheath.
5. Klumpke's paralysis.
6. Mention any four supports of uterus.
7. Femoral hernia.
8. Name the arteries supplying the spinal cord.
9. Name the lobes of the Cerebrum.
10. Muscles responsible for pronation.

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BPT DEGREE EXAMINATION
FIRST YEAR
PAPER II – ANATOMY
Q.P. Code: 746252

Time: Three hours   Answer ALL Questions   Maximum: 100 Marks

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

1. Describe Hip joint under following headings:
   a) Type and variety of articulating bones and surfaces.
   b) Capsule and ligaments.
   c) Movements and muscles responsible for it.
   d) Blood supply and nerve supply.
   e) Applied anatomy.

2. Describe in detail about Median nerve.

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

1. Deltoid.
2. Broncho pulmonary segments.
3. Relations of Kidney.
4. Circle of Willis.
5. Lymphatic drainage of mammary gland.
6. Foot drop.
7. Appendix.
8. Sciatic nerve.

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

1. Layers of scalp.
2. Arch of aorta.
3. Erb's point.
4. Name the ventricles of brain.
5. Contents of popliteal fossa.
6. Name the paranasal air sinuses.
7. Name the types of muscle.
8. Name the thenar muscles.
9. Parts of pancreas.
10. Cartilages of larynx.

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

BPT DEGREE EXAMINATION
FIRST YEAR
PAPER II – ANATOMY
Q.P. Code: 746252

Time: Three hours   Answer ALL Questions   Maximum: 100 Marks

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

1. Describe lumbar plexus and its applied anatomy in detail.
2. Describe in detail about the shoulder joint under the following heading.
   a) Articulating bones b) Type and variety c) Ligaments d) Relations e) Movements possible and muscles responsible f) Applied anatomy.

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

1. Gluteus maximus.
2. Popliteal fossa.
3. Trapezius muscle.
4. Brachial artery.
5. Right atrium.
6. Type of bones.
7. Rectus Abdominis.
8. Functional area of cerebrum.

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

1. Contents of cubital fossa.
2. Nerve supply of lumbrical muscles in hand.
3. Name the muscles responsible for abduction and adduction of fingers of hand.
4. Tendocalcaneus.
5. Name the Nerve involved in wrist drop and muscles Paralysed.
6. Types of neuroglial cells.
7. Contents of middle mediastimum.
8. Parts of large intestine.
9. Name any four ascending tracts in spinal cord.
10. Type and variety of atlanotoaxial joint.

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BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FIRST YEAR
PAPER II – ANATOMY
Q.P. Code: 746252

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

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

1. Describe arches of foot in detail.
2. Describe the ulnar nerve under following headings.
    a) origin b) root value c) termination d) course and relations e) branches and distributions and applied anatomy.

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

1. Adductor magnus.
2. Femoral artery.
3. Supinator muscle.
4. Elbow joint.
5. Posterior mediastinum.
6. Structure of Neuron.
7. Inguinal canal.
8. Sulci and gyri on superolateral surface of cerebral hemisphere.

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

1. Branches of 3rd part of axillary artery.
2. Muscles supplied by musculocutaneus nerve.
3. Contents of adductor canal.
4. Braches of femoral artery.
5. Branches of arch of aorta.
6. Parts of basal ganglion.
7. Name the muscles of mastication.
8. Parts of uterus.
9. Types of epiphysis.
10. Types of ossification with example.

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[LN 6273]   **AUGUST 2018**   Sub. Code : 6273

BPT DEGREE EXAMINATION
FIRST YEAR
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER II – ANATOMY

Q.P. Code: 746273

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

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

1. Classify the muscular compartments of leg with the muscles present in them. Discuss the attachments, nerve supply and action of the muscles present in the anterior and lateral compartments with applied aspects.

2. Describe the ulnar nerve under the following headings:
    a) Origin and root value   b) Course and relations
    c) Distribution   d) Applied anatomy.

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

1. Hinge joint.
2. Deltoid.
3. First carpometacarpal joint.
4. Temporalis.
5. Movements of respiration.
6. Boundaries and applied anatomy of Inguinal canal.
7. External carotid artery.
8. Internal capsule – parts, contents and applied anatomy.

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

1. Write the boundaries and contents of quadrangular space.
2. Name the structures passing deep to carpal tunnel.
3. What is Erb's point? Name the nerves related to it.
4. Name the muscles forming quadriceps femoris.
5. Write the parts of extra hepatic biliary apparatus.
6. Name the branches of abdominal aorta.
7. Name any four extra ocular muscles of eye ball.
8. Name the bones forming the base of the skull.
9. Name the parts of pituitary gland and any two hormones secreted by it.
10. Write the sulci and gyri present in the frontal lobe of cerebrum.

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[LO 6273] **FEBRUARY 2019** Sub. Code : 6273

BPT DEGREE EXAMINATION
FIRST YEAR
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER II – ANATOMY

Q.P. Code: 746273

Time: Three hours Maximum : 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Name the muscles attached to the scapula. Write briefly the attachments, nerve supply and action of those scapular muscles which insert in to the humerus. Add a note on the clinical anatomy related to these muscles.

2. Describe the arches of Foot under the following headings:
   a) Classification b) Formation c) Supports
   d) Functions e) Applied anatomy

II. Write notes on: **(10 x 5 = 50)**

1. Fibrous joint.
2. Anterior interosseous nerve.
3. Medial rotators of hip joint.
4. Sternocleidomastoid.
5. Arterial supply to heart.
6. Diaphragm.
7. Parts and blood supply of stomach.
8. Supports of uterus.
9. Flexors of elbow joint.
10. Axilla.

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

1. Name the muscles of thenar eminence.
2. Which artery supplies upper limb? Write its branches.
3. Name the muscles supplied by obturator nerve.
4. Name the parts of the large intestine.
5. Name the boundaries of carotid triangle.
6. What is a bronchopulmonary segment?
7. Name the cranial nerves arising from the medulla oblongata.
8. Name the parts of the meninges.
9. Name any four muscles of facial expression.
10. Name the bones present in the middle ear cavity.

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[LP 6273]   **AUGUST 2019**   Sub. Code : 6273

BPT DEGREE EXAMINATION
FIRST YEAR
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER II – ANATOMY

Q.P. Code: 746273

Time: Three hours   Maximum : 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Describe the movements of Knee joint with the muscles involved. Write the attachments and nerve supply of these muscles. Name the bursae related to patella with applied anatomy.

2. What is Ape thumb deformity? Which nerve injury is responsible for it? Describe the nerve under the following headings:
   a) Origin and root value   b) Course and relations   c) Distribution

II. Write notes on: **(10 x 5 = 50)**

1. Pectoralis major.
2. Inversion and eversion.
3. Ligaments of hip joint.
4. Lumbricals.
5. Obturator nerve.
6. Intercostal muscles.
7. Rectus sheath.
8. Sulci and Gyri of Superolateral surface of cerebrum.
9. Broncho pulmonary segments.
10. Great Saphenous Vein.

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

1. Name the branches of posterior cord of brachial plexus.
2. Name the rotator cuff muscles.
3. Name the carpal bones in order.
4. Name the veins of lower limb.
5. Write the parts of a vertebra.
6. Write the parts of a nephron.
7. Write the parts of male reproductive system.
8. Write the parts and importance of pelvic diaphragm.
9. Name the parts of pharynx.
10. Write the formation of circle of Willis.

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[LQ 6273]   **FEBRUARY 2020**   Sub. Code : 6273

BPT DEGREE EXAMINATION
FIRST YEAR
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER II – ANATOMY

Q.P. Code: 746273

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

I. Elaborate on: **(2 x 15 = 30)**

1. Describe the Median nerve under following headings:
   a) Origin & termination   b) Root value   c) Course and Relations
   d) Branches & Distributions   e) Applied Anatomy

2. Describe the Femoral triangle and its contents in detail.

II. Write notes on: **(10 x 5 = 50)**

1. Triceps brachii muscle.
2. Radial artery.
3. Popliteal fossa.
4. Foot drop.
5. Adductor canal.
6. Middle ear.
7. Types of muscles.
8. Urinary bladder.
9. Sternocliedomastoid.
10. Basal Ganglia.

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

1. Name the contents of intercostal space.
2. Name the parts of the Sternum.
3. Name the paranasal air sinuses.
4. Name the arteries, which forming the Circle of Willis.
5. Name the flexor muscles of the elbow joint.
6. Name the types of muscles with examples.
7. Name the parts of the small intestine.
8. Muscles supplied by the ulnar nerve in the forearm.
9. Origin and termination of femoral artery.
10. Action of the Soleus muscle.

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

[LR 1220]   **DECEMBER 2020**   Sub. Code: 6273
(AUGUST 2020 EXAM SESSION)

BPT DEGREE EXAMINATION
FIRST YEAR
(New regulations for the candidates admitted from 2017-2018 onwards)
PAPER II – ANATOMY
Q.P. Code: 746273

Time: Three hours   Answer ALL Questions   Maximum: 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Describe in detail about the Hip joint under the following headings:
   a) Type and variety   b) Articulating bones   c) Ligaments
   d) Blood supply and Nerve supply   e) Movements and muscles responsible
   f) Applied anatomy.

2. Describe the Radial nerve under the following headings:
   a) Origin and termination   b) Root value   c) Course and Relations
   d) Branches & Distributions   e) Applied Anatomy

II. Write notes on: (10 x 5 = 50)

1. Deltoid muscle.
2. Cubital fossa.
3. Femoral triangle.
4. Radioulnar joint.
5. Basal ganglion.
6. Diaphragm.
7. Axillary lymph nodes.
8. Blood supply of heart.
9. Dorsiflexors of foot.
10. Parts of stomach.

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

1. Sternal angle.
2. Boundaries of posterior triangle.
3. Name the contents of carotid triangle.
4. Name the unpaired bones of skull.
5. Name the parts of long bone.
6. Branches of common peroneal nerve.
7. Name the branches of axillary artery.
8. Name the actions produced by lumbrical muscle.
9. Name any four bursae around knee joint.
10. Name the muscles of anterior abdominal wall.

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[BPT 0321] **MARCH 2021** Sub. Code: 6273
(AUGUST 2020 EXAM SESSION)

BPT DEGREE EXAMINATION
FIRST YEAR (FOR 2019-2020 REGISTERED CANDIDATES)
PAPER II –ANATOMY
Q.P. Code: 746273

Time: Three hours Answer ALL Questions Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Describe in detail about the shoulder joint under the following headings.
    a) Articulating bones b) type and variety c) ligaments d) relations e) movements possible and muscles responsible f) applied anatomy.
2. Describe the sciatic nerve under following headings.
    a) Origin b) root value c) termination d) course and relations e) branches and distributions and applied anatomy.

II. Write notes on: **(10 x 5 = 50)**

1. Femoral nerve.
2. Popliteal artery.
3. Adductor magnus.
4. Pronation and supination.
5. Boundaries and contents of Axilla.
6. Carpal tunnel syndrome.
7. Typical Intercostal nerve.
8. Type of bones.
9. Urinary bladder.
10. Cerebellum.

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

1.   Formation and termination of cephalic vein.
2. Muscles forming rotator cuff.
3. Structures passing deep to the flexor retinaculum of foot.
4. Name the muscles attached to iliotibial tract.
5. Name the Layers of pericardium.
6. Anatomical lobes of liver.
7. Name the arteries forming circle of Willis.
8. Parts of pharynx.
9. Parts of long bone.
10. Branches of lateral cord of brachial plexus.

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BPT DEGREE EXAMINATION
FIRST YEAR- (Regulations for the candidates admitted from 2017-2018 onwards)
PAPER II –ANATOMY
Q.P. Code : 746273

Time: Three hours   Answer ALL Questions   Maximum: 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Describe in detail about the knee joint under the following headings.
   a) Type and variety b) Articulating bones c) Ligaments d) Blood supply and nerve supply e) Movement and muscles responsible. f) Applied Anatomy.
2. Describe the Ulnar nerve under the following headings.
   a) Origin and termination b) Root Value c) Course and relations d) Branches and distributions e) Applied Anatomy.

II. Write notes on: (10 x 5 = 50)

1. Brainstem.
2. Sternoclavicular Joint.
3. Popliteal fossa.
4. Gluteus maximus.
5. Intercostal nerve.
6. Blood supply to the Brain.
7. Axillary Nerve.
8. Atlantoaxial joint.
9. Gross structure of kidney.
10. Sacroiliac joint.

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

1. Types of Muscle
2. Name the branches of Brachial artery
3. Types of Bone.
4. Name the cell organelles.
5. Name the parts of ear.
6. Name the divisions of pharynx.
7. Type and articular surfaces of subtalar joint.
8. Name the arches of foot.
9. Name the curvatures of vertebral column.
10. Type and articular surface of pubic symphysis.

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BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FIRST YEAR- (Regulation from 2017-2018 onwards)
PAPER II –ANATOMY
Q.P. Code : 746273

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

I. Elaborate on: **(2 x 15 = 30)**

1. Describe in detail about the knee joint under the following headings.
   a) Articulating bones b) type and variety c) ligaments d) relations e) Movements possible and muscles responsible. f) applied anatomy.

2. Describe Brachial Plexus in detail, add a note on its applied anatomy.

II. Write notes on: **(10 x 5 = 50)**

1. Inversion and eversion.
2. Obturator nerve.
3. Soleus.
4. Anatomosis around elbow joint.
5. Ulnar nerve in hand.
6. Triceps brachii.
7. Types of joints.
8. Right Kidney.
9. Sternocleidomastoid.
10. Functional area of cerebrum.

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

1. Branches of radial nerve in radial groove.
2. Structures present in 4th compartment of extensor retinaculum of hand.
3. Name the muscles in 2nd layer of sole.
4. Contents of inguinal canal.
5. Name the hamstring muscles.
6. Parts of conducting system of heart.
7. Parts of ureter.
8. Name the cranial nerves emerges from pons.
9. Name the papillae in tongue.
10. Types of cartilages.

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FIRST YEAR BPT EXAM
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY
Q.P. Code : 746254

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 axes and planes in relation to movements in human body with examples.	19	33	20
2. Define thermionic valves and thermionic emission: List the types of valves and construction and application of cathode ray oscilloscope.	19	33	20

II. Write notes on:

1. DC Currents.	3	8	5
2. Newton's Laws.	3	8	5
3. Cosine law and its implications.	3	8	5
4. Properties of Magnet.	3	8	5
5. Medium frequency Currents.	3	8	5
6. Define Springs and its properties.	3	8	5
7. Wheat stone bridge.	3	8	5
8. Ammeter.	3	8	5

III. Short Answers on:

1. Define force and its components.	1	5	2
2. Define choke coil.	1	5	2
3. Fixation and stabilization	1	5	2
4. S-D Curve	1	5	2
5. Speed	1	5	2
6. Momentum	1	5	2
7. Electrical field.	1	5	2
8. Static equilibrium.	1	5	2
9. Voltmeter.	1	5	2
10. Electromagnetic spectrum	1	5	2

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FIRST YEAR BPT EXAM
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY
Q.P. Code: 746254

Time: Three Hours   Maximum: 100 marks
         (180 Min)

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

1. Define levers. Explain the function, classification and application of levers in physiotherapy & order of levers with example of lever in human body.
2. Explain in detail about the Newton's laws.

II. Write Notes on: **(8X5=40)**
1. Wheatstone bridge.
2. Cosine law and its implications.
3. Electric shock.
4. Pulleys.
5. Ammeters.
6. Rectifiers.
7. Electromagnetic Induction.
8. Properties of a magnet.

III. Short Answer: **(10X2=20)**
1. Faraday's Law.
2. Eddy currents.
3. Law of Grotthus.
4. Concurrent forces.
5. Impedance.
6. Low frequency currents.
7. Centre of Gravity.
8. Define Velocity.
9. Shunt Rheostat.
10. EMF.

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FIRST YEAR BPT EXAM
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY
Q.P. Code : 746254

Time: Three Hours　　　　　　　　　　　　　　　Maximum: 100 marks

I. Elaborate on:　　　　　　　　　　　　　　(2X20=40)

1. Define Equilibrium. Explain about the types and equilibrium in static & dynamic state how its related to physiotherapy?
2. Define electric current. Explain in detail about thermal, chemical and magnetic effects of electric current.

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

1. Force – definition, classification and composition
2. Capacitors
3. Rheostat
4. Physical effect of heat & radiation
5. Law of Grotthus and its implication
6. Semi-conductors.
7. Gravity
8. Springs in series & Parallel.

III. Short Answers:　　　　　　　　　　　　(10X2=20)

1. State Hooke's law
2. Ohm's Law
3. Cosine Law
4. Define Work
5. Define Momentum
6. Friction
7. Triode valve
8. Electric Shock
9. Lenz's Law
10. Voltmeter.

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[LE 6254]   **FEBRUARY 2014**   **Sub. Code: 6254**

FIRST YEAR BPT EXAM

PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY

Q.P. Code : 746254

Time: Three Hours   Maximum: 100 marks

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

1. Explain in detail about the physical effects on heat & radiation and laws governing radiation.
2. Define springs. Write about its properties and about springs in parallel and series. Also explain about the elastic materials in use.

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

1. Momentum – principles & practical application
2. Speed
3. Axes and planes.
4. Pendular movement.
5. Properties of a magnet.
6. Magnetic effects of electric current.
7. Diode valve.
8. Oscillators.

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

1. Ionization.
2. Fuse.
3. Sinusoidal current
4. LED
5. Internal reflection.
6. Newton's laws
7. Types of pulleys.
8. Define Biomechanics.
9. Angle of pulls of muscle.
10. Define stress.

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FIRST YEAR BPT EXAM
PAPER IV – BASIC AND APPLIED PHYSICS FOR
PHYSIOTHERAPY

Q.P. Code : 746254

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

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

1. Define Speed, velocity, work, energy, power, acceleration, momentum, elasticity, principles and applications in physiotherapy.

2. Explain in detail about AC and DC currents.

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

1. Coplanar and concurrent forces
2. Molecular Theory of Magnet
3. Levers in Physiotherapy
4. Hooke's Law
5. Conductors
6. Charging and discharging a capacitor
7. Shunt Rheostat
8. Groothus Law

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

1. Farad
2. Eddy Current
3. Electromagnetism
4. Fixation and Stabilisation
5. Ammeter
6. Factors determining capacity
7. Len'z Law
8. Rectifiers
9. Thermal Energy
10. Volt Meter

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FIRST YEAR BPT EXAMINATION
PAPER IV – BASIC AND APPLIED PHYSICS FOR
PHYSIOTHERAPY

Q.P. Code : 746254

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

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

1. Define levers. Describe different orders of lever, its function and application of levers in the field of physiotherapy.

2. Explain the principle, construction, working and uses of Transformer.

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

1. Cosine law
2. Smoothing circuits
3. Thermionic valve
4. Ammeter
5. Capacitors
6. Types of equilibrium
7. Pulleys
8. Force

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

1. Ohm's law
2. Difference between earth shock and electric shock
3. Inertia
4. Latent heat of vaporization
5. Energy
6. Power
7. Joule's law
8. Insulators
9. Work
10. Proton

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B.P.T. DEGREE EXAMINATION

FIRST YEAR

PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY

Q.P. Code: 746254

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

Answer ALL questions

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

1. Define force. Give the diagrammatic representation of force and also explain briefly with its classification.

2. Define electric current. Explain in detail about thermal, chemical, mechanical and magnetic effects of electric current.

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

1. Wheat stone Bridge.
2. Semiconductors.
3. Newton's laws.
4. Springs in series and parallel.
5. Cosine law and its implications.
6. Medium frequency currents.
7. Electric and Earth shock.
8. Physiological effects of heat and radiation.

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

1. Kinetic energy.
2. Amplitude.
3. Elasticity.
4. Inductors.
5. Work.
6. Biomechanics.
7. Ohmmeter.
8. Acceleration.
9. Wavelength.
10. Thermotherapy.

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FIRST YEAR BPT EXAMINATION
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY

Q.P. Code : 746254

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

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

1. Define Equilibrium. Explain about types of Equilibrium and its application in Physiotherapy.

2. Define Condenser. Write in detail about types, principles, factors determining capacity of Condenser.

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

1. Rheostat.
2. Gravity.
3. Potentiometer.
4. Construction and uses of Triode Valve.
5. Law of Grotthus and Implications.
6. Rectifiers.
7. Pulleys and its application in Physiotherapy.
8. Hooke's law.

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

1. Choke coil
2. Momentum
3. Voltmeter
4. Electromagnetic spectrum
5. Speed
6. Static electricity
7. Insulators
8. Solid friction
9. Lenz Law
10. Frequency

****

FIRST YEAR BPT EXAMINATION
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY

Q.P. Code : 746254

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

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

1. Define Levers. Explain the function, classification and application of Levers in physiotherapy and order of Levers with example of Lever in human body.

2. Explain in detail about AC and DC currents.

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

1. Cathode ray oscilloscope
2. Diode valve
3. Resistance in series and parallel
4. Pulleys
5. Properties of magnet
6. Axes and planes
7. Ammeter
8. Rheostat

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

1. Define acceleration
2. Define Speed
3. Vanthoff Law
4. Define Gravity
5. Impedance
6. Define Velocity
7. Lenz's Law
8. Sinusoidal current
9. Energy
10. Static equilibrium

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BPT DEGREE EXAMINATION
FIRST YEAR
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY

Q.P. Code : 746254

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

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

1. Define Electric Current. Explain in detail about thermal, chemical and magnetic effects of Electric Current.

2. Explain in detail about the physical effects on Heat and Radiation and laws governing radiation.

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

1. Ammeter.
2. Voltmeter.
3. Springs in series and Parallel.
4. Pendular movement.
5. Levers in Physiotherapy.
6. Thermionic Valve.
7. DC Currents.
8. Wheat stone bridge.

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

1. Molecular Theory.
2. Thermionic emission.
3. Eddy currents.
4. Uses of condenser.
5. Ohm's Law.
6. Farad.
7. S-D Curve.
8. Earth Shock.
9. Fuse.
10. Concurrent forces.

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BPT DEGREE EXAMINATION
FIRST YEAR
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY

Q.P. Code : 746254

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

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

1. Define Earth shock. Describe the causes, management and preventive measures of earth shock.

2. Explain in detail about the various force systems with example.

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

1. Axes and planes.
2. Physiological effects of heat.
3. Cathode Ray Oscilloscope (CRO).
4. Newton's second law of motion.
5. Types of transformer.
6. Cosine law and its implications.
7. Factors determining capacitance of condenser.
8. Types of equilibrium.

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

1. Base of support.
2. Low frequency currents.
3. Angle of pull of a muscle.
4. Rectifier.
5. Pulley.
6. Thermotherapy.
7. Strain.
8. Free electrons.
9. Mechanical advantage.
10. Potentiometer.

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BPT DEGREE EXAMINATION
FIRST YEAR
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY

Q.P. Code : 746254

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

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

1. Describe in detail about types, principles, factors determining capacity of Condenser.

2. Define Equilibrium. Explain about the types and equilibrium in static and dynamic state.

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

1. Diode valve.
2. Gravity.
3. Capacitors.
4. Force.
5. Potentiometer.
6. Magnetic lines of force.
7. Explain About Line of Gravity and Center of Gravity.
8. LED.

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

1. Define Velocity.
2. Define acceleration.
3. Joule's law.
4. Electromotive Force.
5. Define Momentum.
6. Inertia.
7. Define Power.
8. Impedance.
9. Solid Friction.
10. Shunt Rheostat.

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

[LN 6254]　　　　　　　**AUGUST 2018**　　　　Sub. Code: 6254

BPT DEGREE EXAMINATION
FIRST YEAR
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY

Q.P. Code : 746254

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

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

1. Define Lever. Describe the types of levers with an example. Write the application of lever principles in physiotherapy treatment.

2. Define Capacitor. Write its types and explain the electric field around a capacitor, charging and discharging of capacitor.

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

1. Types of pulleys.
2. Fuse.
3. Classification of forces.
4. Semiconductor.
5. Hooke's law.
6. Ionisation.
7. Grothus law and its implications.
8. Light emitting diodes (LED).

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

1. Biomechanics.
2. Electro motive force.
3. Inertia.
4. Medium frequency currents.
5. Types of friction.
6. Ohmmeter.
7. Sine wave.
8. Grid.
9. Pendulum.
10. Reactance.

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

[LO 6254] **FEBRUARY 2019** Sub. Code: 6254

BPT DEGREE EXAMINATION
FIRST YEAR
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY

Q.P. Code : 746254

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

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

1. Describe the axes and planes in relation to movements in human body with examples.

2. Explain the principle, construction, working and uses of Transformer.

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

1. Wheat stone bridge.
2. Law of Grothus and Implications.
3. Rectifiers.
4. Explain about types of equilibrium.
5. Details about DC currents.
6. Factors determining capacitance of condenser.
7. List the types of Valves and construction.
8. Define springs, write about its properties. Also explain about the elastic materials in use.

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

1. Potentiometer.
2. Newton's IInd law.
3. Strain.
4. Earth shock.
5. Molecular theory.
6. S.D. curve.
7. Define levers.
8. Solid friction.
9. Kinetic Energy.
10. Eddy currents.

****

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

[LP 6254] **AUGUST 2019** Sub. Code: 6254

BPT DEGREE EXAMINATION
FIRST YEAR
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY

Q.P. Code : 746254

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

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

1. Define Springs. Write its properties and explain springs in series and parallel.

2. Explain in detail about the rectifiers and smoothing circuits.

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

1. Concurrent force system.
2. Wheatstone bridge.
3. Factors determining stability of an object.
4. Electric shock.
5. Ammeter.
6. Oscillators.
7. Types of levers.
8. Molecular theory of magnet.

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

1. Types of motion.
2. Voltmeter.
3. Energy.
4. High frequency currents.
5. Springs.
6. Reflection.
7. Ohm's law.
8. Inductance.
9. Gravity.
10. Movement arm.

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

[LQ 6254] **FEBRUARY 2020** Sub. Code: 6254

BPT DEGREE EXAMINATION
FIRST YEAR
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY

Q.P. Code : 746254

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

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

1. Define Thermionic valves and Thermionic emission. List the types of valves and construction and application of Cathode ray oscilloscope.

2. Define Condenser. Describe in detail about principles, construction, factors determining capacity and use of condenser in electrotherapy.

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

1. Anatomical pulleys.
2. Physical effect of heat.
3. Earth shock and its prevention.
4. Gravity.
5. Pendular movement.
6. Lenz's law and its application in physiotherapy.
7. Springs in series and parallel.
8. Charging and discharging a capacitor.

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

1. Define force.
2. Define levers.
3. Define stress and strain.
4. Magnitude of current.
5. Reflection.
6. Dangers of radiation.
7. Types of motion.
8. Define mechanics.
9. Newton's Third law.
10. Define Friction.

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[LR 1220]   **DECEMBER 2020**   **Sub. Code: 6254**
(AUGUST 2020 EXAM SESSION)

BPT DEGREE EXAMINATION
FIRST YEAR
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY
Q.P. Code : 746254

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

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

1. Define Force. Give the diagrammatic representation of force and detail about classification of forces.
2. Describe in detail about Low frequency current, medium frequency current and direct current.

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

1. Choke coil.
2. Newton's law.
3. Hooke's law.
4. Kinetic and potential energy.
5. Laws governing radiation.
6. Oscillators.
7. Ammeter.
8. Concurrent system of force and its uses.

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

1. Fuse.
2. Uses of springs.
3. Cosine law.
4. Voltmeter.
5. Prevention of Electric shock.
6. Define pulley.
7. Thermal effect of heat.
8. Define Rectifiers.
9. Define Biomechanics.
10. Prevention of Electric Burns.

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

[BPT 0122] **JANUARY 2022** **Sub. Code: 6254**
(AUGUST 2021 EXAM SESSION)

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FIRST YEAR – (Regulation from 2010-2011 onwards)
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY
Q.P. Code : 746254

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

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

1. Define speed, velocity, work, energy, power, acceleration, momentum principles and applications in physiotherapy.
2. Explain in detail about gravity and types.

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

1. Parameters of alternating current.
2. Types of a magnet.
3. Properties of magnetic lines of force.
4. Faraday's Law.
5. Capacitor series and parallel.
6. Electromagnetic induction.
7. Diode valve.
8. Explain in Transistor and its types.

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

1. Young's modulus.
2. Wavelength.
3. Amplitude.
4. Frequency.
5. Static electricity.
6. Ohm's Law.
7. Electric power.
8. Base of support.
9. Inverse Square Law.
10. Radiation.

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

[LN 6275]   **AUGUST 2018**   Sub. Code: 6275

BPT DEGREE EXAMINATION
FIRST YEAR
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY

Q.P. Code : 746275

Time: Three hours   Maximum: 100 Marks

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

1. Explain in detail about the Newton's laws and application of its principles in exercise therapy.

2. Define electric current. Explain the thermal, chemical and magnetic effects of an electric current.

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

1. Extrinsic semiconductor.
2. Physical effects of heat.
3. Resistance in series and parallel.
4. Voltmeter.
5. Types of motion.
6. Movable pulley.
7. Molecular theory of magnet.
8. Application of momentum principle in physiotherapy.

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

1. Work.
2. Inductor.
3. Whetstone bridge.
4. Cryotherapy.
5. Torque.
6. Capacitance.
7. Transistor.
8. Lenz's law.
9. Elastic materials used in physiotherapy.
10. Stability versus mobility.

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

[LO 6275]   **FEBRUARY 2019**   Sub. Code: 6275

**BPT DEGREE EXAMINATION
FIRST YEAR**
(Regulations for the candidates admitted from 2017-2018 onwards)
**PAPER IV – BASIC AND APPLIED PHYSICS FOR
PHYSIOTHERAPY**

Q.P. Code : 746275

Time: Three hours   Maximum: 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Describe in detail about the various laws governing radiations.

2. Define Pulley. Explain the system, types and application of pulleys in Physiotherapy.

II. Write notes on: (10 x 5 = 50)

1. Triode valve.
2. Elasticity.
3. Types of capacitor.
4. Ammeter.
5. Line of gravity and base of support.
6. Properties of magnet.
7. Angle of pull of a muscle.
8. Static electric charge.
9. Types of Levers.
10. Light Emitting Diodes (LED).

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

1. Energy.
2. Medium frequency currents.
3. Hooke's law.
4. Phototherapy.
5. Farad.
6. Biomechanics.
7. Fuse.
8. Electron.
9. Therapeutic current.
10. Ferro magnet.

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[LP 6275]   **AUGUST 2019**   Sub. Code: 6275

BPT DEGREE EXAMINATION
FIRST YEAR
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER IV – BASIC AND APPLIED PHYSICS FOR
PHYSIOTHERAPY

Q.P. Code : 746275

Time: Three hours   Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Define Electric Shock. Describe the causes, treatment and prevention of electric shock.

2. Define Lever. Describe the types, functions and application of lever principles in exercise therapy.

II. Write notes on: **(10 x 5 = 50)**

1. Oscillator.
2. Electromagnetic induction.
3. Concurrent force system.
4. Types of springs.
5. Grotthus law and its application.
6. Physiological effects of heat.
7. Wheatstone bridge.
8. Friction.
9. Semi conductors.
10. Types of pulley.

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

1. Rheostat.
2. Force.
3. Amplitude.
4. Power.
5. Electromagnetic wave.
6. Speed.
7. Molecular magnet.
8. Inverse square law.
9. Center of gravity.
10. Young's modulus.

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

[LQ 6275] **FEBRUARY 2020** Sub. Code: 6275

BPT DEGREE EXAMINATION
FIRST YEAR
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY

Q.P. Code : 746275

Time: Three hours Maximum: 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Define Equilibrium. Explain about the types and equilibrium in static and dynamic state.

2. Definition, description, physiological effects, pathological effects and dangers of Thermal, Electrical, Electromagnetic Therapeutic Energies.

II. Write notes on: (10 x 5 = 50)

1. Force – definition, classification and composition.
2. Capacitors.
3. Explain Static and Dynamic equilibrium.
4. Physical effect of heat & radiation.
5. Pendular movement.
6. Axes and planes.
7. Magnetic effects of electric current.
8. Thermionic emission.
9. Levers in Physiotherapy.
10. Cosine law and its implications.

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

1. Kinetic energy.
2. Biomechanics.
3. Thermotherapy.
4. Lenz's law.
5. Proton.
6. Latent heat of vaporization.
7. Fixation and Stabilisation.
8. Ionization.
9. Define choke coil.
10. Hooke's Law.

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

[LR 1220] **DECEMBER 2020** Sub. Code: 6275
(AUGUST 2020 EXAM SESSION)

BPT DEGREE EXAMINATION
FIRST YEAR
(New regulations for the candidates admitted from 2017-2018 onwards)
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY
Q.P. Code : 746275

Time: Three hours   Answer ALL Questions   Maximum: 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Explain in detail about application of physical principles in Exercise therapy.
2. Explain in detail about the Newton's laws.

II. Write notes on: (10 x 5 = 50)

1. Define Biomechanics.
2. Differentiate between line of gravity and centre of gravity.
3. Explain Static and Dynamic equilibrium.
4. Friction.
5. Define frequency, wavelength, Amplitude and phase of a sine wave.
6. Resistances in series and parallel combination.
7. Magnetic effects of electric current.
8. Thermionic emission.
9. Intrinsic and extrinsic semiconductors.
10. Functions and applications of Ammeter, volt meters and Ohmmeters.

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

1. Direct currents.
2. Wheat stone bridge.
3. Concurrent forces.
4. Lenz's law.
5. Shunt Rheostat.
6. Ohm's law.
7. S-D Curve.
8. Electromagnetic spectrum.
9. Composition and resolution of forces.
10. HOOKE'S Law.

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[BPT 0321]　　　　　**MARCH 2021**　　　　**Sub. Code: 6275**
(AUGUST 2020 EXAM SESSION)

BPT DEGREE EXAMINATION
FIRST YEAR
(New Regulations for the candidates admitted from 2017-2018 onwards)
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY
Q.P. Code : 746275

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

I. Elaborate on:　　　　　　　　　　　　　　　　　**(2 x 15 = 30)**

1. Explain in detail about the physical effects on heat of radiation and laws governing radiation.
2. Explain the principle, construction, working and uses of Transformer.

II. Write notes on:　　　　　　　　　　　　　　　　**(10 x 5 = 50)**

1. Thermonic Valve.
2. Pendular Movement.
3. Electric shock and earth shock.
4. Cosine law and its implications.
5. Axes and planes.
6. Len's law.
7. Factors determining capacitance of condenser.
8. Define springs and its properties.
9. Springs in series and parallel.
10. Pulleys.

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

1. Law of Grotthus.
2. Medium frequency currents.
3. Define velocity.
4. Proton.
5. EMF.
6. Concurrent forces.
7. Inductors.
8. Electric current.
9. Electric resistant.
10. Elasticity.

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[BPT 0921]   **SEPTEMBER 2021**   Sub. Code: 6275
(FEBRUARY 2021 EXAM SESSION)

BPT DEGREE EXAMINATION
FIRST YEAR- (Regulations for the candidates admitted from 2017-2018 onwards)
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY
Q.P. Code : 746275

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

I. Elaborate on: (2 x 15 = 30)

1. Define levers, Explain the function, Classification and application of levers in physiotherapy & order of levers with example of levers in human body.
2. Explain the detail about AC and DC currents.

II. Write notes on: (10 x 5 = 50)

1. Charging and discharging of capacitor.
2. Shunt Rheostat.
3. Semiconductors.
4. Wheatstone bridge.
5. Rectifiers.
6. Resistance in series and parallel.
7. Magnetic effects of electric current.
8. Coplanar and concurrent forces.
9. Cosine law.
10. Construction and uses of triode valve.

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

1. Momentum.
2. Velocity.
3. Insulator.
4. Types of magnetism.
5. Ammeter.
6. Energy.
7. Free electrons.
8. Electric field.
9. Capacitors.
10. Low frequency currents.

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

[BPT 0122] **JANUARY 2022** **Sub. Code: 6275**
(AUGUST 2021 EXAM SESSION)

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FIRST YEAR- (Regulation from 2017-2018 onwards)
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY
Q.P. Code : 746275

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

I. Elaborate on: **(2 x 15 = 30)**

1. Define Electric current. Explain in detail about thermal, chemical and magnetic effects of electric current.
2. Define Equilibrium. Explain about types of Equilibrium and its application in physiotherapy.

II. Write notes on: **(10 x 5 = 50)**

1. Earth shock and its prevention.
2. Light Emitting Diodes.
3. Charging and discharging a capacitor.
4. Grotthus law and its implications.
5. Axes and planes.
6. Medium frequency currents.
7. Force.
8. Principle of momentum and its practical applications.
9. Define condenser and uses of condenser in electrotherapy.
10. Impedance.

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

1. Define Elasticity.
2. Resistance.
3. Vant's Hoof's law.
4. Inertia.
5. Causes of earth shock.
6. Uses of thermionic valve.
7. Define power.
8. Angle of pull of a muscle.
9. Mechanical advantage of pulleys.
10. Uses of condenser.

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[KZ 6253]   Sub. Code : 6253

BACHELOR OF PHYSIOTHERAPY EXAMINATION

FIRST YEAR
Paper III – PHYSIOLOGY AND APPLIED PHYSIOLOGY
Q.P. Code : 746253

Time : Three hours   Maximum : 100 marks
ANSWER ALL QUESTIONS

I. LONG ESSAYS   (2X20=40)

1.   Describe the transport of carbon-di-oxide in the blood.

2.   Name the various endocrine glands in the body and describe growth
         hormone and applied physiology.

II. SHORT NOTES   (8X5=40)

1.   Endoplasmic Reticulum.
2.   Functions of liver.
3.   Neuromuscular junction.
4.   Functions of pancreas.
5.   Hormones of Adrenal Gland.
6.   Functions of Leucocytes.
7.   Heart sounds.
8.   Neuralgia.

III. SHORT ANSWERS   (10X2=20)

1.   Define Homeostasis.
2.   Define Erythrocyte sedimentation rate.
3.   Define Glomerular Filtration Rate.
4.   Types of muscles.
5.   Define Ovulation.
6.   Types of bone cells.
7.   Define tidal volume.
8.   Glands of the skin.
9.   Composition of the blood.
10.   Properties of Platelets.

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[LA 6253]   **Sub. Code : 6253**

BACHELOR OF PHYSIOTHERAPY EXAMINATION

FIRST YEAR

Paper III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746253

Time: Three Hours   Maximum: 100 marks

Answer ALL questions

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

1. Discuss the mechanism of Skeletal Muscle Contraction.

2. Define Erythroporiesis. Discuss the factors influencing erythropoiesis.

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

1. Functions of Thyroxine.
2. Electrocardiogram.
3. Oxygen   Dissociation Curve.
4. Cerebrospinal Fluid.
5. Visual Pathway.
6. Micturition Reflex.
7. Lung Volume and Capacities.
8. Properties of Synapse.

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

1. List any four functions of Cerebellum.
2. Cyanosis.
3. Slow and fast Muscle Fibre.
4. Reflex Arc.
5. Functions of Bile.
6. Heart Sounds.
7. Name the Cardio –Vascular Reflexes.
8. Erythroblastosis Foetalis.
9. Taste Pathway.
10. Functions of Testosterone.

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FIRST YEAR BPT EXAM
Paper III – PHYSIOLOGY AND APPLIED PHYSIOLOGY
Q.P. Code: 746253

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. Define Neuro- Muscular Junction. Describe the transmission of impulses across Neuro-Muscular Junction.	19	33	20
2. Discuss the mechanism of Blood Clotting.	19	33	20

II. Write notes on:

1. Electrocardiogram.	3	8	5
2. Muscle Spindle.	3	8	5
3. Bile.	3	8	5
4. Oxygen Dissociation Curve.	3	8	5
5. Functions of Thyroxine.	3	8	5
6. Micturition.	3	8	5
7. Motor Unit.	3	8	5
8. Menstrual Cycle.	3	8	5

III. Short Answers:

1. Functions of Cerebro Spinal fluid.	1	5	2
2. Tetanus and Clonus.	1	5	2
3. Erythroblastosis Foetalis.	1	5	2
4. List the functions of Kidney.	1	5	2
5. Hypoxia.	1	5	2
6. Functions of Placenta.	1	5	2
7. Saltatory Conduction.	1	5	2
8. Heart Sounds.	1	5	2
9. List Four functions of Cortisol.	1	5	2
10. All or none Law.	1	5	2

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FIRST YEAR BPT EXAM
Paper III – PHYSIOLOGY AND APPLIED PHYSIOLOGY
Q.P. Code: 746253

Time : Three hours   **Maximum : 100 marks**
(180 Min)

I. Elaborate on: **(2X20=40)**
  1. Define arterial blood pressure and describe any five factors
     that determine blood pressure. Explain the Renin Angiotensin
     mechanism in regulation of blood pressure.
  2. What is the normal fasting blood glucose level? Describe
     the hormonal regulation blood. Glucose level in the body.
     Add a note on diabetes mellitus.

                                                            (8X5=40)

II. Write notes on:
  1. Properties of skeletal muscle.
  2. Pain pathway.
  3. Anticoagulants.
  4. Contraception.
  5. Deglutition.
  6. Glomerular filtration rate.
  7. Artificial respiration.
  8. Pecularities of coronary circulation.

III. Short answers: **(10X2=20)**
  1. What is gravindex test?
  2. Draw a neat diagram of a Nephron and label its parts.
  3. What is haemophilia ? and what is the cause for it ?
  4. What are heart sounds and what are they due to?
  5. List any four functions of gastric juice.
  6. What is the role of basal ganglia in voluntary movement?
  7. What are the hormones involved in regulation of water
     balance in the body?
  8. Define stroke volume and what is the normal value?
  9. What is timed vital capacity and its significance?
 10. What is Wallerian degeneration?

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FIRST YEAR BPT EXAM
Paper III – PHYSIOLOGY AND APPLIED PHYSIOLOGY
Q.P. Code: 746253

Time: Three hours   Maximum : 100

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

1. Define cardiac cycle. Describe in detail the changes that occur in different phases of cardiac cycle with a suitable diagram.

2. Name the ascending tracts of spinal cord. Explain in detail the pain pathway and types of pain.

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

1. Glomerular filtration rate
2. Functions of liver
3. Placental hormones
4. Chemical regulation of respiration
5. Parturition
6. Upper motor neuron(UMN) and Lower motor neuron lesion(LMN)
7. Carbohydrate metabolism
8. Spermatogenesis

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

1. Uses of Electrocardiogram
2. Salivary glands
3. Draw structure of cell
4. Cretinism
5. Define cardiac output
6. Acid base balance
7. Types of jaundice
8. What is anemia
9. Taste receptors
10. Regulation of pancreatic juice

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FIRST YEAR BPT EXAM
Paper III – PHYSIOLOGY AND APPLIED PHYSIOLOGY
Q.P. Code: 746253

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

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

1. Define Immunity. What are types of immunity? Discuss the mechanism of cell mediated immunity.
2. Explain the neural regulation of respiration. What are the changes that occur in respiration during exercise.

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

1. Movements of small intestine.
2. Juxtaglomerular apparatus(JGA).
3. Cardiac cycle.
4. Functions of placenta.
5. Referred pain.
6. Anaemia.
7. Enterohepatic circulation.
8. Cerebrospinal circulation.

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

1. Name any four immunoglobulins.
2. Name any two enzymes present in saliva.
3. What is anatomical dead space? What is the normal value?
4. What are the components of conducting system of heart.
5. What is cretinism?
6. Name the hormones secreted by posterior pituitary gland.
7. Write any four abnormal constituents of urine.
8. Write any two functions of hypothalamus
9. What is myoglobin?
10. Draw a neat diagram of a neuron and label the parts.

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FIRST YEAR BPT EXAM
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746253

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

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

1. Define hemostasis. Discuss in detail the two pathways of coagulation. Add a note on hemophilia.

2. Explain the molecular mechanism of contraction in skeletal muscle with a suitable diagram. Add a note on myasthenia gravis.

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

1. Function of saliva.
2. Oxygen-hemoglobin dissociation curve (ODC).
3. Methods to estimate cardiac output.
4. Actions of insulin.
5. Reflex arc.
6. Passive transport across the cell membrane.
7. Erythroblastosis foetalis.
8. Neuroglia.

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

1. Name the agranulocytes of white blood corpuscles (WBC).
2. What is succus entericus? Name one enzyme present in it.
3. What is surfactant? What is it's function?
4. Name the normal pace-maker of heart. What is the normal heart rate?
5. What are the hormones involved in calcium metabolism?
6. Name the fat soluble vitamins.
7. What are the layers of glomerular filtering membrane?
8. Name any two inhibitory neurotransmitters.
9. Write any four properties of cardiac muscle.
10. Draw a net diagram of a synapse and label the parts.

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FIRST YEAR BPT EXAMINATION
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746253

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

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

1. Name the hormones of Anterior Pituitary and Posterior Pituitary gland. Write about their actions in detail.

2. Describe in detail the three steps in formation of urine. Add a note on micturition.

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

1. Hypoxia
2. Blood groups
3. Neuromuscular junction
4. Cerebrospinal fluid
5. Functions of liver
6. Diagram of cell structure and its organelles with their functions
7. Diabetes mellitus
8. Electrocardiogram

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

1. Sarcomere
2. Placental hormones
3. Types of immunity
4. Platelets
5. Structure of sperm
6. Functions of skin
7. Enzymes in pancreatic juice
8. Muscles of inspiration
9. Define blood pressure
10. Receptors of vision

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B.P.T. DEGREE EXAMINATION

FIRST YEAR

PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746253

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

Answer ALL questions

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

1. Define Cardiac cycle. Explain the events in different phases of cycle with illustrative diagram.

2. Name the three steps in formation of urine. What is Glomerular filtration rate and factors regulating it? Add a note on renal clearance.

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

1. Chemical regulation of respiration.
2. Types of muscle.
3. Pyramidal tract.
4. Heart rate.
5. Functions of liver.
6. Lactation.
7. Cushing's syndrome.
8. Intrinsic mechanism of coagulation.

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

1. Enzymes in pancreatic juice.
2. Testicular hormones.
3. Acquired immunity.
4. Blood groups.
5. Neuroglia.
6. Taste receptors.
7. Functions of skin.
8. Cyanosis.
9. Gigantism.
10. Define Stroke volume.

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FIRST YEAR BPT EXAMINATION
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746253

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

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

1. Discuss the mechanism of Blood Coagulation. Add a note on Haemophilia.

2. Define Blood Pressure. Discuss the factors regulating Arterial pressure.

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

1. Micturition Reflex.
2. Blood Grouping.
3. Salivary Juice secretion.
4. Endometrial cycle.
5. Visual pathway.
6. Calcitrophic Hormones.
7. Functions of Hypothalamus.
8. Isotonic and Isometric contractions.

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

1. Name the Lung volumes.
2. Any four functions of Thyroxine.
3. Functions of Placenta.
4. Sarcomere.
5. List the types of Hypoxia.
6. Phagocytosis.
7. Stroke Volume.
8. Functions of Cerebrospinal fluid.
9. List the refractive errors.
10. Hazards of blood transfusion.

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BPT EXAMINATION
FIRST YEAR
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746253

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

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

1. Define Erythropoiesis. Explain the different stages of Erythropoiesis. List the factors influencing Erythropoiesis.

2. Explain in detail about the molecular mechanism of Skeletal muscle contraction with a neat diagram.

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

1. Mechanism of secretion of hydrochloric acid in stomach.
2. Renin – angiotensin system.
3. Actions of thyroid hormone.
4. Hormonal regulation of menstrual cycle.
5. Conducting system of heart.
6. Non-respiratory functions of lung.
7. Cerebrospinal fluid.
8. Errors of refraction.

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

1. What is apoptosis?
2. Name any four Gastro Intestinal Hormones.
3. Name the types of sweat glands. Mention any two differences between them.
4. Name the different ways by which heat loss occurs in our body.
5. What is Diabetes Mellitus?
6. Functions of Sertoli cells.
7. Draw and mark the normal waves of Electrocardiogram.
8. Define vital capacity.
9. Mention any two uses of Electroencephalogram.
10. Name any two tests for hearing.

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BPT DEGREE EXAMINATION
FIRST YEAR
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746253

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

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

1. Define Cardiac output. Explain various factors regulating Cardiac output.

2. What is a Synapse? Classify synapse. Explain the properties of synapse.

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

1. Phagocytosis.
2. Erythroblastosis foetalis.
3. Neuroglia.
4. Surfactant.
5. Mechanism of hydrochloric acid secretion.
6. Functions of liver.
7. Conducting system of Heart.
8. Spermatogenesis.

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

1. Complications of mismatched blood transfusion.
2. Tidal volume.
3. All or None Law.
4. Emulsification of fat.
5. Heart sounds.
6. Acromegaly.
7. Neurotransmitters.
8. Functions of middle ear.
9. Glomerular filtration rate.
10. Facilitated diffusion.

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BPT DEGREE EXAMINATION
FIRST YEAR
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746253

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

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

1. Define Arterial Blood pressure. Discuss in detail about the regulation of Arterial Blood Pressure. Add a note on hypertension.

2. Explain in detail about the transport of oxygen in blood.

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

1. Cell mediated immunity.
2. Excitation contraction coupling.
3. Enterohepatic circulation.
4. Peculiarities of renal circulation.
5. Functions of glucocorticoids.
6. Parkinsonism.
7. Difference between upper and lower motor neuron lesion.
8. Taste pathway.

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

1. Define homeostasis?
2. Endoplasmic reticulum and its function.
3. Erythroblastosis foetalis.
4. Functions of saliva.
5. List the non-excretory functions of kidney.
6. What is cretinism?
7. Name any four contraceptive methods in female.
8. What is surfactant? What is its function?
9. Define shock. What are the types of shock?
10. Name two excitatory and two inhibitory neurotransmitters.

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BPT DEGREE EXAMINATION
FIRST YEAR
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746253

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

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

1. Explain the composition, functions and various phases of gastric secretion.

2. Enumerate the divisions of Cerebellum. Write the connections of cerebellum. Add a note on functions of cerebellum.

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

1. Active transport.
2. Functions of plasma proteins.
3. Hypoxia.
4. Deglutition reflex.
5. Properties of cardiac muscle.
6. Oral contraceptives.
7. Oxygen–Haemoglobin dissociation curve.
8. Aphasia.

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

1. Leukaemia.
2. Name the muscle proteins.
3. Frank–starlings Law.
4. Cushing's syndrome.
5. Waves of ECG.
6. Components of reflex arc.
7. Parkinsonism.
8. Taste buds.
9. Apnoea.
10. Proteinuria.

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

[LN 6253]   **AUGUST 2018**   **Sub. Code: 6253**

BPT DEGREE EXAMINATION
FIRST YEAR
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746253

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

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

1. What is erythropoiesis? Write in detail about the stages of erythropoiesis and factors affecting it.

2. Name the ascending tracts of spinal cord. Add a note on pain pathway-its origin, course and its termination.

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

1. Jaundice.
2. Types of leucocytes and its function.
3. Visual pathway.
4. Renin angiotensin system.
5. Plasma proteins.
6. Regulatory centres of respiration.
7. Adrenocortical hormones.
8. Effects of exercise on cardiovascular system.

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

1. Rods and cones.
2. Two functions of oxytocin.
3. Functions of bile.
4. What is innate immunity?
5. Name two gastrointestinal hormones.
6. Define cardiac output.
7. Three steps in formation of urine.
8. What is synapse?
9. Cause of cretinism.
10. Name two clotting factors.

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

[LO 6253]　　　　　　　**FEBRUARY 2019**　　　　　Sub. Code: 6253

BPT DEGREE EXAMINATION
FIRST YEAR
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746253

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

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

1. Name the various blood groups. What is the importance of knowing the blood groups? Add a note on transfusion reaction.

2. Describe the location of the respiratory centres and the nervous regulation of respiration.

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

1. Difference between cortical and juxta–medullary nephrons.
2. Formation of hydrochloric acid.
3. Neuro-muscular junction.
4. Carbon-dioxide transport.
5. Spermatogenesis.
6. Hypothyroidism.
7. Parkinsonism.
8. Conduction system of heart.

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

1. Refractory period.
2. Platelets.
3. What are the different types of hypoxia?
4. Peptic ulcer.
5. Mention any four functions of calcium.
6. Define Glomerular Filtration Rate. What is the normal GFR?
7. Define cardiac output. Name two methods of determining cardiac output.
8. Functions of middle ear.
9. Structure of skin.
10. Name the muscle proteins.

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

[LP 6253]   **AUGUST 2019**   Sub. Code: 6253

BPT DEGREE EXAMINATION
FIRST YEAR
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746253

Time: Three hours   Maximum: 100 Marks

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

1. Define Immunity. What are types of immunity? Discuss the mechanism of cell mediated immunity.

2. Write in detail about the effects of Brown-Sequard syndrome and diseases of Spinal cord.

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

1. Properties of Synapse.
2. Menstrual cycle.
3. Anticoagulants.
4. Passive transport across the cell membrane.
5. Neuromuscular junction.
6. Electrocardiogram.
7. Functions of Kidney.
8. Lung volume and capacities.

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

1. Positive feedback.
2. Pyknosis.
3. Action potential.
4. Tetanus.
5. Refractory period.
6. Electromyogram.
7. Bile salts.
8. Disorders of anterior pituitary gland.
9. Medical Termination of Pregnancy (MTP).
10. Dyspnea.

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

[LQ 6253]   **FEBRUARY 2020**   Sub. Code: 6253

BPT DEGREE EXAMINATION
FIRST YEAR
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746253

Time: Three hours   Maximum: 100 Marks

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

1. Explain in detail the changes that occur in Respiratory system and Cardiovascular system during Exercise.

2. Define Cardiac output. Describe in detail various factors regulating Cardiac Output.

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

1. Refractory period.
2. Function of Glottis.
3. Surfactant.
4. Excitation contraction coupling.
5. Visual pathway.
6. Hemisection of the spinal cord.
7. Small intestine motility.
8. Diabetes mellitus.

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

1. Name the enzymes present in Succus entericus.
2. Functions of saliva.
3. Write any two functions of cerebellum.
4. Functions of Rods and Cones.
5. Name any four female contraceptive methods.
6. Define blood volume and mention its types.
7. Types of Cyanosis.
8. Platelets.
9. Write any two uses of Electrocardiogram.
10. Define Synapse.

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[LR 1220]   **DECEMBER 2020**   **Sub. Code: 6253**
(AUGUST 2020 EXAM SESSION)

BPT DEGREE EXAMINATION
FIRST YEAR
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY
Q.P. Code: 746253

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

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

1. Name the ascending tracts of Spinal cord. Explain in detail the Pain Pathway. Add a note on types of Pain.

2. Explain in detail about the transport of oxygen in blood. Add a note on Caisson's disease.

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

1. Male contraceptive methods.
2. Functions of bile.
3. Errors of refraction.
4. Lung function test.
5. Electrocardiogram (ECG).
6. Functions of Nephron.
7. Cushing's Syndrome.
8. Muscle Spindle.

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

1. Mention the phases/stages of Ovarian cycle.
2. Name any two functions of Pancreatic juice.
3. Define Tidal Volume.
4. List the non excretory functions of kidney.
5. Rigor mortis.
6. Define Erythropoiesis.
7. Functions of cell membrane.
8. Any two hazards of blood transfusion.
9. What is Myoglobin?
10. List the types of Hypoxia.

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[BPT 0921]   **SEPTEMBER 2021**   Sub. Code: 6253
(FEBRUARY 2021 EXAM SESSION)

BPT DEGREE EXAMINATION
FIRST YEAR - (Regulations of 2004-2005 and 2006-2007 admitted candidates are merged with 2010-2011)
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY
Q.P. Code: 746253

Time: Three hours   Answer ALL Questions   Maximum: 100 Marks

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

1. Define Synapse. Classify Synapse and explain in detail the properties of Synapse.
2. Describe in detail the transport of Carbon dioxide in the blood.

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

1. Glucagon.
2. Cerebrospinal fluid.
3. Spermatogenesis.
4. Deglutition.
5. Heart sound.
6. Taste pathway.
7. Juxtaglomerular apparatus.
8. Micturition reflex.

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

1. What is apoptosis?
2. Sarcomere.
3. Components of conducting system of heart.
4. Define stroke volume.
5. Functions of placenta.
6. All or none law.
7. Wallerian degeneration.
8. Surfactant and its significance.
9. Receptors of vision.
10. What are the types of Jaundice?

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

[BPT 0122]   **JANUARY 2022**   **Sub. Code: 6253**
(AUGUST 2021 EXAM SESSION)

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FIRST YEAR - (Regulations of 2004-2005 & 2006-2007 are merged with 2010-2011)
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY
Q.P. Code: 746253

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

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

1. Explain skeletal muscle contraction with a suitable diagram. Add a note on Myasthenia gravis.
2. Name the hormones of Anterior Pituitary and Posterior Pituitary gland. Write about their actions in detail.

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

1. Write about Hypoxia and its types.
2. Functions of Cerebrospinal fluid.
3. What is Cushing's syndrome.
4. Explain Micturition Reflex.
5. Write about the conducting system of heart.
6. Non-respiratory functions of lung.
7. Explain Erythroblastosis foetalis.
8. Write about Neuroglia.

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

1. Neurotransmitters and give examples.
2. Emulsification of fat.
3. All or none Law.
4. Facilitated diffusion.
5. Name the Lung volumes.
6. Functions of Placenta.
7. Stroke Volume.
8. Renin – angiotensin system.
9. Any four functions of Thyroxine.
10. Draw and mark the normal waves of Electrocardiogram.

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BPT DEGREE EXAMINATION
FIRST YEAR
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746274

Time: Three hours   Maximum : 100 Marks

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

1. Define cardiac output. Explain the factors regulating cardiac output. Add a note on effect of exercise on cardiac output.

2. Describe electron microscopic structure of Skeletal muscle. Discuss the mechanism of Skeletal Muscle Contraction.

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

1. Phagocytosis.
2. Carbon dioxide transport.
3. Cerebrospinal Fluid.
4. Referred pain.
5. Juxta Glomerular Apparatus (JGA).
6. Functions of liver.
7. Neuro endocrinal reflex.
8. Spermatogenesis.

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

1. Accommodation reflex.
2. Functions of Haemoglobin.
3. Surfactant.
4. Gastrin.
5. Facilitated diffusion.
6. Oxygen debt.
7. Functions of Hypothalamus.
8. Acromegaly.
9. List of four of functions of plasma proteins.
10. Homeostasis.

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

[LO 6274] **FEBRUARY 2019** Sub. Code: 6274

BPT DEGREE EXAMINATION
FIRST YEAR
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746274

Time: Three hours Maximum : 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Discuss the origin, course and functions of Pyramidal tract. Add a note on Hemiplegia.

2. Discuss in detail the stages of erythropoiesis and the factors affecting it. Add a note on polycythemia.

II. Write notes on: (10 x 5 = 50)

1. Hypoxia.
2. Functions of thyroid hormone.
3. Neuromuscular junction.
4. Contraception.
5. Functions of saliva.
6. Micturition reflex.
7. Short term regulation of blood pressure.
8. Conduction system of heart.
9. Normal E.C.G.
10. Functions of Cerebellum.

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

1. List lung volumes and it's normal value.
2. Smooth muscle.
3. List four special features of coronary circulation.
4. $Na^+ K^+$ pump.
5. Refractory errors.
6. Diabetes mellitus.
7. What is surfactant?
8. Mention the functions of skin.
9. Heart sounds.
10. Two effects of exercise on Respiration.

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

[LP 6274]   **AUGUST 2019**   **Sub. Code: 6274**

BPT DEGREE EXAMINATION
FIRST YEAR
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746274

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

I. Elaborate on: (2 x 15 = 30)

1. Describe in detail with the help of diagrams the molecular mechanism of contraction of Skeletal Muscle. Add a note on rigor mortis.

2. Describe uterine and ovarian changes during different phases of menstrual cycle with neat diagram. Add a note on hormonal changes during menstrual cycle.

II. Write notes on: (10 x 5 = 50)

1. Facilitated diffusion.
2. Functions of plasma proteins.
3. Movements of small intestine.
4. Cystometrogram.
5. Functions of glucocorticoids.
6. Types of shock.
7. Artificial respiration.
8. Draw respiratory membrane and explain factors affecting diffusion of gases.
9. What is referred pain? Explain theories associated with it.
10. Functions of middle ear.

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

1. Types of T lymphocytes.
2. Sarcomere.
3. Functions of bile salts.
4. What are diuretics? Give two examples.
5. Babinski's sign and its significance.
6. Dark adaptation in eye.
7. Name hormones involved in calcium homeostasis.
8. Physiological basis of pregnancy tests.
9. Types of sleep.
10. Muscles involved in breathing.

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

[LQ 6274]   **FEBRUARY 2020**   Sub. Code: 6274

BPT DEGREE EXAMINATION
FIRST YEAR
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY

Q.P. Code: 746274

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

I. Elaborate on: (2 x 15 = 30)

1. Describe the pathway for Pain in detail. Add a note on Referred pain.

2. Define Glomerular Filtration Rate (GFR). Describe the mechanism of glomerular filtration and the various factors affecting it. Discuss in detail the regulation of GFR.

II. Write notes on: (10 x 5 = 50)

1. Facilitated Diffusion.
2. Humoral Immunity.
3. Myasthenia Gravis.
4. Jugular Venous Pressure.
5. Cardio-respiratory changes during exercise.
6. Ovarian cycle.
7. Peptic Ulcer.
8. Auditory pathway.
9. Hypoxia.
10. Synapse.

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

1. Reticulocyte.
2. Starling forces acting on capillary wall.
3. Sarcotubular system.
4. Gastrin.
5. Einthoven's triangle.
6. Functional Residual Capacity.
7. Heart sounds.
8. Placental hormones.
9. Olfactory Pathway.
10. Inverse stretch reflex.

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BPT DEGREE EXAMINATION
FIRST YEAR
(New regulations for the candidates admitted from 2017-2018 onwards)
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY
Q.P. Code: 746274

Time: Three hours   Answer ALL Questions   Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Describe the countercurrent mechanism of concentration of Urine. Add a note on Diabetes Insipedus.

2. Define Cardiac cycle. Describe the events in various phases with the help of diagrams.

II. Write notes on: **(10 x 5 = 50)**

1. Milk ejection reflex.
2. Hazards of blood transfusion.
3. Ionic events in action potential of nerve.
4. Functions of liver.
5. Hypersecretion of growth hormone.
6. Hormonal changes in various phases of menstrual cycle.
7. Taste pathway.
8. Oxygen hemoglobin dissociation curve.
9. Functions of hypothalamus.
10. Refractive errors of eye.

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

1. Difference between primary and secondary active transport.
2. Erythroblastosis fetalis.
3. Motor unit.
4. Functions of large intestine.
5. Hormonal defect in   a) Acromegaly   b) Cretinism.
6. Reflex arc.
7. State Frank Starling's law of the heart.
8. Define Residual volume, give its clinical significance.
9. Indicators of ovulation.
10. Name the cranial nerves carrying the taste sensation.

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BPT DEGREE EXAMINATION
FIRST YEAR
(New regulations for the candidates admitted from 2017-2018 onwards)
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY
Q.P. Code: 746274

Time: Three hours   Answer ALL Questions   Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. What is a Synapse? Classify synapse. Explain the properties of synapse.

2. Define Erythropoiesis. Explain the different stages of Erythropoiesis. List the factors influencing Erythropoiesis.

II. Write notes on: **(10 x 5 = 50)**

1. Blood Groups.
2. Calcitrophic Hormones.
3. Write about Sarcomere.
4. Hormonal Regulation of menstrual cycle.
5. Explain Spermatogenesis with diagram.
6. Functions of glucocorticoids.
7. Functions of plasma proteins.
8. Types of Jaundice.
9. Effects of exercise on cardiovascular system.
10. Actions of insulin.

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

1. Define Homeostasis.
2. Action potential.
3. Functions of kidney.
4. Functions of Cerebellum.
5. Write about in vitro and in vivo Anticoagulants.
6. Refractory period.
7. Saltatory Conduction.
8. Hormones secreted by the posterior pituitary gland.
9. Write about Neuroglia.
10. What is Cyanosis.

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[BPT 0921]   **SEPTEMBER 2021**   Sub. Code: 6274
(FEBRUARY 2021 EXAM SESSION)

BPT DEGREE EXAMINATION
FIRST YEAR- (Regulations for the candidates admitted from 2017-2018 onwards)
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY
Q.P. Code : 746274

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

I. Elaborate on: (2 x 15 = 30)

1. Name the three steps in formation of urine. What is Glomerular filtration rate and factors regulating it? Add a note on renal clearance.
2. Define Immunity. What are types of immunity? Discuss the mechanism of cell mediated immunity.

II. Write notes on: (10 x 5 = 50)

1. Referred pain.
2. Conducting system of the Heart.
3. What is Cretinism.
4. Intrinsic mechanism of coagulation.
5. Enterohepatic circulation.
6. Define shock. What are the types of shock?
7. Regulatory centres of respiration.
8. Hypothyroidism and hyperthyroidism.
9. Contraceptive methods in female.
10. Passive transport.

III. Short answers on: (10 x 2 = 20)
1. Difference between cortical and juxta–medullary nephrons.
2. Formation of hydrochloric acid.
3. Write about Surfactant.
4. Name two excitatory and two inhibitory neurotransmitters.
5. Draw a neat diagram of a Nephron and label its parts.
6. Define stroke volume and what is the normal value?
7. Wallerian degeneration.
8. Salivary enzymes.
9. Succus entericus and its enzymes.
10. Pace maker of the heart.

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[BPT 0122]   **JANUARY 2022**   **Sub. Code: 6274**
(AUGUST 2021 EXAM SESSION)

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FIRST YEAR- (Regulation from 2017-2018 onwards)
PAPER III – PHYSIOLOGY AND APPLIED PHYSIOLOGY
Q.P. Code : 746274

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

I. Elaborate on: (2 x 15 = 30)

1. Define arterial blood pressure. Discuss in detail about the regulation of arterial BP. Add a note on Hypertension.
2. Describe the transport of carbon dioxide in Blood.

II. Write notes on: (10 x 5 = 50)
1. Erythroblastosis fetalis.
2. Excitation-contraction coupling.
3. Passive and active transport.
4. Artificial respiration – types.
5. Cardiac output and factors regulating it.
6. Structure and functions of synapse.
7. Optic pathway.
8. Brown Sequard syndrome.
9. Diabetes Mellitus.
10. Mechanism of Hydrochloric Acid secretion.

III. Short answers on: (10 x 2 = 20)
1. Properties of RBC.
2. Functions of bile.
3. Types of muscle.
4. List any four functions of cerebellum.
5. Functions of placenta.
6. Name any four GI hormones.
7. Inspiratory Reserve Volume.
8. Surfactant and its function.
9. All or None law.
10. Name the hormones involved in Regulation of water balance in our body.

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BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
First Semester – First Year - Non-Semester Regulations
(Common to all regulations)
(Common to BPT and BOT Examinations)
Paper I – PSYCHOLOGY AND SOCIOLOGY
Q.P. Code : 746113

Time : Three hours   Maximum : 100 marks
Answer All questions
Draw suitable diagrams wherever necessary
Section A and B must be answered in SEPARATE Answer Book
SECTION – A
(PSYCHOLOGY)

I. Essays.
 1. Define heredity and environment. Explain their role in relation to physical characteristics, intelligence and personality. **(15)**
 2. Define learning and list the differences and similarities between classical and operant conditioning. **(10)**

II. Short Notes: **(3 x 5 = 15)**
 1. Counselling.
 2. Steps in creative thinking.
 3. Control of Anxiety.

III. Short Answer: **(5 x 2 = 10)**
 1. Name the three types of attention.
 2. Expand M.M.P.I and B.A.I.
 3. List four traits of creative people.
 4. Name the principles governing Id, Ego and super-ego.
 5. List any four qualities of leadership.

SECTION – B
(SOCIOLOGY)

IV. Essays:
 1. Define social planning and the role of social planning in the improvement of health and rehabilitation. (15)
 2. Define social change and factors of social change. (10)

V. Short Notes: **(3 x 5 = 15)**
 1. Looking Glass self.
 2. Social factors affecting health status.
 3. Rural community in Health.

VI. Short Answer: **(5 x 2 = 10)**
 1. Prostitution.
 2. Folkways.
 3. Synthetic school.
 4. Endogamy.
 5. Primary Group.

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BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
First Semester – First Year - Non-Semester Regulations
(Common to all regulations)
(Common to BPT and BOT Examinations)
Paper I – PSYCHOLOGY AND SOCIOLOGY
Q.P. Code : 746113

Time : Three hours   Maximum : 100 marks

Answer All questions
Draw suitable diagrams wherever necessary
Section A and B must be answered in SEPARATE Answer Book
SECTION – A
(PSYCHOLOGY)

I. Essays.
  1. Define personality. Describe briefly and explain the assessment of personality in projective test. (15)
  2. Define psychology. Explain the branches of psychology. (10)

II. Short Notes: **(3 x 5 = 15)**
  1. Interview.
  2. Rationalization, projection.
  3. Classical conditioning.

III. Short Answer: **(5 x 2 = 10)**
  1. Role of RAS.
  2. List the senses.
  3. Expand WISC and RPM.
  4. Attitude.
  5. Childhood.

SECTION – B
(SOCIOLOGY)

IV. Essays:
  1. Explain nature and scope of sociology. **(15)**
  2. Discuss why we need application knowledge of sociology in physiotherapy. **(10)**

V. Short Notes: **(3 x 5 = 15)**
  1. Explain process of socialization.
  2. Uses of study of sociology.
  3. Home remedies.

VI. Short Answer: **(5 x 2 = 10)**
  1. Who said "Man is a social animal"?
  2. Define community.
  3. Define polyandry.
  4. Who is the father of sociology.
  5. Define society.

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BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
First Semester – First Year - Non-Semester Regulations
(Common to all regulations)
(Common to BPT and BOT Examinations)
Paper I – PSYCHOLOGY AND SOCIOLOGY
Q.P. Code : 746113

Time : Three hours   Maximum : 100 marks
Answer All questions
Draw suitable diagrams wherever necessary
Section A and B must be answered in SEPARATE Answer Book
SECTION – A (PSYCHOLOGY)

I. Essays.
   1. Explain Thorndike's trial and error learning and laws of learning. **(15)**
   2. Define frustration. Explain sources and solutions for frustrations. **(10)**

II. Short Notes: **(3 x 5 = 15)**
   1. Abnormal psychology.
   2. Psychological needs.
   3. Attention.

III. Short Answer: **(5 x 2 = 10)**
   1. List the senses.
   2. Displacement.
   3. Creativity.
   4. Old age.
   5. Interview method.

SECTION – B
(SOCIOLOGY)

IV. Essays.
   1. Define social groups and social group in hospitals and rehabilitation settings. **(15)**
   2. Features of modern caste system. **(10)**

V. Short Notes: **(3 x 5 = 15)**
   1. Influence of family on human personality.
   2. Role of medical social workers.
   3. Social change and deviance.

VI. Short Answer: **(5 x 2 = 10)**
   1. Psychosomatic diseases.
   2. Maternity Act.
   3. Types of beggars.
   4. Sickness.
   5. Arya samaj.

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[KX 902] Sub. Code : 6113

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
First Semester – First Year - Non-Semester Regulations
(Common to all regulations)
(Common to BPT and BOT Examinations)
Paper I – PSYCHOLOGY AND SOCIOLOGY
Q.P. Code : 746113

Time : Three hours Maximum : 100 marks
ANSWER ALL QUESTIONS
Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.
SECTION – A
(PSYCHOLOGY)

I. Essays.
 1. Write about the importance of the knowledge of Psychology in
  Physiotherapy Profession. **(15)**
 2. Explain clearly about culture induced symptoms & disease and
  subculture of medical workers. **(10)**

II. Short Notes: **(3X5=15)**
 1. Illusion & Hallucination.
 2. Heridity & Environment
 3. Reactions to Frustration.

III. Short Answers: **(5X2=10)**
 1. Counselling.
 2. Four concepts of learning.
 3. Name the five Psycho sexual stages.
 4. Psychological changes in emotion.
 5. Figure ground perception.

SECTION-B
(SOCIOLOGY)

IV. Essays:
 1. Roles of primary and secondary groups in the hospital and rehabilitation centre for
  restoration of Patient's health. **(15)**
 2. Discuss the various method of social control. **(10)**

V. Short Notes: **(3X5=15)**
 1. Explain about social Security and social legislation.
 2. Problems of Indian Working Women in employment.
 3. Five factors influencing social change.

VI. Short Answers: **(5X2=10)**
 1. Role of Social Planning.
 2. Role of Community in Public Health.
 3. Bring three home remedies for diseases.
 4. Cultural lag.
 5. Define Socialization and its uses.

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[KY 902] Sub. Code : 6113

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
First Semester – First Year - Non-Semester Regulations
(Common to all regulations)
(Common to BPT and BOT Examinations)

Paper I – PSYCHOLOGY AND SOCIOLOGY
Q.P. Code : 746113

Time : Three hours Maximum : 100 marks

ANSWER ALL QUESTIONS
Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.
SECTION – A
(PSYCHOLOGY)

I. Essays :

1. Define motivation. Explain the role of primary and secondary motives in motivation. (15)

2. Define Learning. Explain the various effective ways by which a student can enhance his learning skills. (10)

II. Short Notes : (3 × 5 = 15)

1. Delusions.

2. Infancy.

3. Attention.

III. Short Answers : (5 × 2 = 10)

1. Types of conflict.

2. Kinds of learning.

3. Change of attitude.

4. Qualities of leadership.

5. Role of RAS.

(SOCIOLOGY)

IV. Essays :

1. Features of Modern caste in India. (15)

2. Functions of Family. (10)

V. Short Notes : (3 × 5 = 15)

1. Beggary.

2. Informal means of social control.

3. Cultural meaning of sickness.

VI. Short Answers : (5 × 2 = 10)

1. Definition of Health.

2. Examples for formal groups – any four.

3. Meaning of customs.

4. Meaning of Cultural Lag.

5. Social Hierarchy – meaning.

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[KZ 6251]   Sub. Code : 6251
BACHELOR OF PHYSIOTHERAPY EXAMINATION
FIRST YEAR
(Common to BPT and BOT Examinations)

Paper I – PSYCHOLOGY AND SOCIOLOGY
Q.P. Code : 746251

Time : Three hours   **Maximum : 100 marks**
ANSWER ALL QUESTIONS
Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.
SECTION – A
(PSYCHOLOGY)

I. LONG ESSAYS   **(1X20=20)**
1.   Define Attention. Discuss the factors determinants attention.
II. SHORT NOTES   **(4X5=20)**
1.   Projective Tests.
2.   Bhatia's battery of performance tests.
3.   Nature Vs Nurture Controversy.
4.   The Laws of Learning.
III. SHORT ANSWERS   **(5X2=10)**
1.   Define Intelligence.
2.   Name the four Psycho-social motives.
3.   Sensation.
4.   Interviews.
5.   Tools of Thinking.

SECTION-B
(SOCIOLOGY)

IV. LONG ESSAYS   **(1X20=20)**
1.   The Role of Social Planning in the improvement of Health and Rehabilitation.
V. SHORT NOTES   **(4X5=20)**
1.   Influence of Social Factors on Personality.
2.   Impact of Culture on Human Behaviour.
3.   Characteristics of Joint Family.
4.   Social Consciousness and Meaning of Illness.
VI. SHORT ANSWERS   **(5X2=10)**
1.   Patriarchal Family
2.   Social Control means.
3.   Define Society.
4.   Psychosomatic Diseases.
5.   Juvenile Delinquency means.
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FIRST YEAR BPT EXAM
(Common to BPT and BOT Exam)
Paper I – PSYCHOLOGY AND SOCIOLOGY
Q.P. Code: 746251

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
   Draw suitable diagrams wherever necessary.
SECTION – A
(PSYCHOLOGY)

	Pages (Max.)	Time (Max.)	Marks (Max.)
I. Elaborate on:			
1. How learning takes places according to Classical conditioning theory? What are the therapeutic advantages.	19	33	20
II. Write notes on:			
1. Inventory method.	3	8	5
2. Hunger.	3	8	5
3. Hallucinations.	3	8	5
4. Psychosexual development.	3	8	5
III. Short Answers:			
1. Solutions for frustration.	1	5	2
2. Difference between Emotion and feeling.	1	5	2
3. Any Five Branches in psychology.	1	5	2
4. Concept of IQ.	1	5	2
5. List out the effective ways of learning.	1	5	2

SECTION-B
(SOCIOLOGY)

	Pages	Time	Marks
IV. Essays:			
1. Define Sociology and critically evaluate the application of knowledge of Sociology in Physiotherapy.	19	33	20
V. Short Notes:			
1. Explain Social Security and Social Legislation.	3	8	5
2. What is Social Consciousness and perception of illness?	3	8	5
3. List some Home remedies in Treatments.	3	8	5
4. How does social change cause stress?	3	8	5
VI. Short Answer:			
1. Medical social worker.	1	5	2
2. Alcoholism.	1	5	2
3. Socialization in Hospital.	1	5	2
4. Methods of Social Control.	1	5	2
5. Sanskritization.	1	5	2

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[LC 6251]   **FEBRUARY 2013**   Sub. Code : 6251
FIRST YEAR BPT EXAM
(Common to BPT and BOT Exam)
Paper I – PSYCHOLOGY AND SOCIOLOGY
Q.P. Code: 746251

Time: Three hours   **Maximum : 100 marks**
        (180 Mins)

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.
SECTION – A
(PSYCHOLOGY)

I. Elaborate on: **(1 x 20 = 20 marks)**
  1. Explain how personality is determined with reference to
     psychoanalytic theory.
II. Write notes on: **(4 x 5 = 20 marks)**
  1. Physiological changes during emotion.
  2. Conflict and its types.
  3. Projective tests.
  4. Types of Attention.
III. Short Answers: **(5 x 2 = 10 marks)**
  1. Delusions.
  2. Any FIVE schools in psychology.
  3. Traits of creative thinker.
  4. Qualities of a good leader.
  5. Expand: WAIS, WISC, and RPM.

SECTION-B
(SOCIOLOGY)

IV. Elaborate on: **(1 x 20 = 20 marks)**
  1. Define Socialization. Explain the Stages and Agents of
     Socialization.
V. Write notes on: **(4 x 5 = 20 marks)**
  1. Process of Socialization.
  2. Family and Nutrition.
  3. Social and Deviance.
  4. Primary group in the Hospital Settings.
VI. Short Answers: **(5 x 2 = 10 marks)**
  1. Cultural – lag.
  2. Contra culture.
  3. Non – material Culture.
  4. Folkways.
  5. Write any two factors of Social change.

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[LD 6251]   **AUGUST 2013**   Sub. Code : 6251
FIRST YEAR BPT EXAM
(Common to BPT and BOT Exam)
Paper I – PSYCHOLOGY AND SOCIOLOGY
Q.P. Code: 746251

Time: Three hours   **Maximum : 100**

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

I. Elaborate on: **(1 x 20 = 20)**
  1. Define motivation. Explain the role of primary and secondary motives in motivation.

II. Write notes on: **(4 x 5 = 20)**
  1. Psychosexual stages of development.
  2. External factors of attention.
  3. Physiological changes of emotion.
  4. Heredity and Personality.

III. Short Answers: **(5 x 2 = 10)**
  1. Interview method.
  2. Structuralism.
  3. Illusion.
  4. Biological needs.
  5. Projective techniques.

SECTION-B
(SOCIOLOGY)

I. Elaborate on: **(1 x 20 = 20)**
  1. Define Social Group. How it differs Primary Group to Secondary Group?

II. Write notes on: **(4 x 5 = 20)**
  1. Types of Society
  2. Elements of Social Structure
  3. Origin and Nature of Family
  4. Role of Medical Social Worker

III. Short Answers: **(5 x 2 = 10)**
  1. Looking Glass
  2. Ill-health
  3. Father of Sociology
  4. Man is a Social Animal who said?
  5. Social change means what?

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FIRST YEAR BPT EXAM
(Common to BPT and BOT Exam)
Paper I – PSYCHOLOGY AND SOCIOLOGY
Q.P. Code: 746251

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

I. Elaborate on: **(1 x 20 = 20)**
1. Define learning. Explain the theory of classical conditioning with ivan Pavlov experiment?

II. Write notes on: **(4 x 5 = 20)**
1. Experimental method
2. Maslow's view point.
3. Determinants of attention
4. Thematic Apperception Test.

III. Short Answers: **(5 x 2 = 10)**
1. Define emotion
2. Neuron
3. Gestalt psychology.
4. Intelligence
5. Infancy.

SECTION-B
(SOCIOLOGY)

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

1. Define family. Explain the essential and non essential functions of family.

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

1. Primary group and its characteristics.
2. Cultural meaning of sickness.
3. Social change and stress.
4. Problem of Beggary.

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

1. Meaning of norms.
2. Juvenite Delinguents.
3. Any two culture induced diseases.
4. Any two social security schemes.
5. Meaning of outgroups.

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FIRST YEAR BPT EXAM
PAPER I –PSYCHOLOGY AND SOCIOLOGY

Q.P. Code: 746251

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

I. Elaborate on: (1x20=20)
   1. Define Personality. How Personality is shaped according to Psychoanalytic theory.

II. Write notes on: (4x5=20)
   1. Reinforcement
   2. Conflict
   3. Any Five principles of Perception
   4. Physiological changes during emotion

III. Short Answers: (5x2=10)
   1. Mentions Any FOUR Schools in Psychology
   2. List the senses
   3. Concept of IQ
   4. List any FOUR Qualities of Leadership
   5. Displacement

SECTION-B
(SOCIOLOGY)

I. Elaborate on: (1x20=20)
   1. Explain about the role of primary groups and secondary groups in the hospital and rehabilitation settings.

II. Write notes on: (4x5=20)
   1. Application of knowledge of Sociology in Physiotherapy and Occupational therapy.
   2. Influence of the family on the individual's health.
   3. The role of social planning in the improvement of health and in rehabilitation.
   4. Problems of women in employment

III. Short Answers: (5x2=10)
   1. Define Socialization.
   2. Forms of family.
   3. Cultural lag.
   4. Any two home remedies.
   5. Agencies of Social control.

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FIRST YEAR BPT EXAMINATION
PAPER I – GENERAL PSYCHOLOGY AND SOCIOLOGY
Q.P. Code: 746251

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

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

1. Define Motivation. Explain Primary Needs and Psychological Needs.

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

1. Define Psychology
2. Adulthood
3. Components of Personality
4. Laws of Learning proposed by Thorndike

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

1. Twins
2. IQ
3. Anger
4. Creativity
5. Illusion

SECTION-B
(SOCIOLOGY)

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

1. Define Caste. Describe its features and Modern Trends.

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

1. Uses of Sociology
2. Agencies of Socialization
3. Components of Culture
4. Beggary

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

1. Father of Sociology
2. Name four Institutions of Health
3. Primary Group
4. Home Remedies
5. Folkways

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B.P.T. DEGREE EXAMINATION

FIRST YEAR
(Common to BOT and BPT Exam)
PAPER I – GENERAL PSYCHOLOGY AND SOCIOLOGY

Q.P. Code: 746251

Time : Three Hours   **Maximum : 100 marks**
Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

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

  1. Define Perception. Explain the different principles of perception.

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

  1. Bhatia's battery of performance test.
  2. Emotion and health.
  3. Old age and the stage of dying.
  4. Effective ways to learn.

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

  1. Applied psychology.
  2. Tools of thinking.
  3. Leadership.
  4. Internal factors of attention.
  5. The structure of psyche.

SECTION-B
(SOCIOLOGY)

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

  1. Define community. Write in detail the role of urban community and rural community in public health.

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

  1. Poverty.
  2. Factors of social change.
  3. Modern trends of caste system in India.
  4. Sociology is a science.

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

  1. Who classified the concept of in group and out group?
  2. Who is the father of sociology?
  3. Who elaborated the idea of cultural lag?
  4. Who said "Man is a social animal"?
  5. Who divides the function of the family into essential and non-essential categories?

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FIRST YEAR BPT EXAMINATION
(Common to BOT and BPT Exam)
PAPER I –PSYCHOLOGY AND SOCIOLOGY

Q.P. Code: 746251

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

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

1. Define Intelligence. Elaborate various Intelligence Tests.

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

1. Experimental method.
2. Adolescence.
3. Principles of Perception.
4. Attitude.

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

1. Free Association.
2. Environment.
3. Fear.
4. Incidental Vs. Intentional.
5. TAT.

SECTION-B
(SOCIOLOGY)

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

1. Define Social change. Explain Factors of Social Change.

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

1. Application of Sociology in Physiotherapy.
2. Social Groups.
3. Means of Social Control.
4. Juvenile Delinquency.

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

1. Perception of Illness.
2. Filocentric.
3. Cultural Trait.
4. "Casta".
5. Social Work.

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FIRST YEAR BPT EXAMINATION
(Common to BOT and BPT Exam)
PAPER I –PSYCHOLOGY AND SOCIOLOGY
Q.P. Code: 746251

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

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

1. Explain the role of Primary and Secondary motives in Motivation.

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

1. Conflict and its types.
2. External factors of Attention.
3. Thematic Apperception Test.
4. Inventory Method.

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

1. Delusions.
2. Psychosexual stages of development.
3. Traits of creative thinker.
4. Laws of learning.
5. Concept of IQ.

SECTION-B
(SOCIOLOGY)

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

1. Define Health and discuss the social cultural factors as determinants of health and behavior in health and sickness.

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

1. Examine the importance of sociology in the field of physiotherapy and occupational therapy.
2. Socialization in hospital.
3. Influence of the family on personality.
4. Role of Rural community in maintaining public health.

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

1. Write different types of poverty with examples.
2. Define culture.
3. Meaning of religion.
4. List the modern trends of caste system.
5. Bring out the social security schemes for elderly.

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FIRST YEAR BPT EXAMINATION
(Common to BOT and BPT Exam)
PAPER I –PSYCHOLOGY AND SOCIOLOGY

Q.P. Code: 746251

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

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

1. Define Personality and briefly explain how Personality is determined with reference to Psychoanalytic theory.

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

1. Period of storm and stress.
2. Nature Vs Nurture controversy.
3. Bhatia's battery of Performance Tests.
4. Stages in creative thinking.

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

1. What is gestalt?
2. What is Insight?
3. What is Hallucination?
4. What is Emotion?
5. What is Conflict?

SECTION-B
(SOCIOLOGY)

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

1. a) Alcohol is injurious to health-discuss.
   b) Write the remedies to control social problems.

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

1. Bring-out the scope of Sociology.
2. In what ways the role of socio cultural factors determine the health status?
3. Write the sub-culture of medical workers.
4. Explain the characteristics of social change.

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

1. Define Health.
2. List different stages of Socialization.
3. Polyandrous family.
4. Write the formal agencies of social control.
5. Social Stratification.

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FIRST YEAR BPT EXAMINATION
(Common to BOT and BPT Exam)
PAPER I –PSYCHOLOGY AND SOCIOLOGY

Q.P. Code: 746251

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

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

1. Define Learning. Describe Trial and Error Learning and Laws of Learning.

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

1. Structuralism and Functionalism.
2. Heredity and Environment.
3. Creativity.
4. Illusion.

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

1. Chunking.
2. "Persona".
3. Types of Conflict.
4. Oral Stage.
5. Needs.

SECTION-B
(SOCIOLOGY)

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

1. Define Health. Discuss institutions of Health.

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

1. Primary group.
2. Psychosomatic disease.
3. Formal means of social control.
4. Social security.

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

1. Father of sociology.
2. Name the factors of process of socialization.
3. Endogamy.
4. Replacement and modification.
5. Social work.

****

FIRST YEAR BPT EXAMINATION
(Common to BOT and BPT Exam)
PAPER I –PSYCHOLOGY AND SOCIOLOGY

Q.P. Code: 746251

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

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

1. Define Personality? Explain briefly about various personality assessment tests.

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

1. Branches of psychology.
2. Secondary motives.
3. Physiological changes during emotion.
4. Types of conflicts.

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

1. Any five qualities of good leadership.
2. List out the external factors affecting attention.
3. What is nature and nurture?
4. List out the mnemonic methods of learning.
5. Expand WAIS and WISC.

SECTION-B
(SOCIOLOGY)

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

1. Define Socialization. Explain the stages and agents of socialization.

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

1. Types of social groups.
2. Factors influencing social change.
3. Remedies to prevent social problems.
4. Application of sociology in physiotherapy.

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

1. Define Sociology.
2. Cultural lag.
3. Social welfare programmes.
4. Four impacts on population explosion.
5. Rehabilitation.

****

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

[LN 6251]   **AUGUST 2018**   Sub. Code : 6251

FIRST YEAR BPT EXAMINATION
(Common to BOT and BPT Exam)
PAPER I –PSYCHOLOGY AND SOCIOLOGY

Q.P. Code: 746251

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

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

1. Define Psychology and briefly explain the methods of Psychology.

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

1. Intelligence tests.
2. Development and growth of infancy stage.
3. Primary motives.
4. Projective techniques.

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

1. Types of delusion.
2. What is fear and anxiety?
3. Laws of learning.
4. List out the senses.
5. Sources of frustration.

SECTION-B
(SOCIOLOGY)

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

1. Write the role of Community in determining beliefs, practices and home remedies in treatment.

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

1. Application of sociology in physiotherapy.
2. Modern caste system in India.
3. Social change and deviance.
4. Social security in relation to the disabled.

III. Short answers on: **(5 x 2 = 10)**
1. Define society.
2. Define family.
3. Social problems.
4. Rehabilitation.
5. Types of poverty.

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[LO 6251]   **FEBRUARY 2019**   Sub. Code : 6251

FIRST YEAR BPT EXAMINATION
(Common to BOT and BPT Exam)
PAPER I –PSYCHOLOGY AND SOCIOLOGY

Q.P. Code: 746251

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

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

1. Define attention and briefly explain the factors that determine attention.

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

1. Branches of psychology.
2. Stages of creative thinking.
3. Maslow's view point.
4. Structure of Psyche.

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

1. Intelligent Quotient.
2. Heredity.
3. Define emotion.
4. Behavior.
5. List out the effective ways of learning.

SECTION-B
(SOCIOLOGY)

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

1. Define Health and discuss the social factors influencing on health status of the individuals in society.

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

1. Uses of study of sociology.
2. Explain the different forms of family.
3. Does social change leads to stress?
4. Write a note on Alcoholism.

III. Short answers on: **(5 x 2 = 10)**
1. Define sociology.
2. List different types of Socialization.
3. Any two home remedies.
4. Cultural lag.
5. Write down the steps in decision making in treatment.

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

[LP 6251]　　　　　　　　**AUGUST 2019**　　　　　Sub. Code : 6251

FIRST YEAR BPT EXAMINATION
(Common to BOT and BPT Exam)
PAPER I –PSYCHOLOGY AND SOCIOLOGY

Q.P. Code: 746251

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

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

   1. Define Perception. Explain in detail the organizing principles of Perception.

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

   1. External and internal factors affecting attention.
   2. Effective ways of learning.
   3. Classical conditioning.
   4. Concept of ID, EGO and SUPEREGO.

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

   1. Any five traits of creative people.
   2. Difference between feeling and emotion.
   3. What is approach-avoidance conflict?
   4. List out the schools of psychology.
   5. IQ.

SECTION-B
(SOCIOLOGY)

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

   1. Define Social change. Write the role of social planning in the health and rehabilitation.

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

   1. Types and the importance of family.
   2. Importance of socialization.
   3. Social security in relation to the disabled.
   4. Culture induced symptoms and disease.

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

   1. Define social system.
   2. Define culture.
   3. Medical social worker.
   4. Define Socialization.
   5. Juvenile delinquency.

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

[LQ 6251] **FEBRUARY 2020** **Sub. Code : 6251**

FIRST YEAR BPT EXAMINATION
(Common to BOT and BPT Exam)
PAPER I –PSYCHOLOGY AND SOCIOLOGY

Q.P. Code: 746251

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

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

1. Define motivation. Explain in detail about the types of motivation.

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

1. Methods of psychology.
2. Nature vs nurture controversy.
3. Id.ego and superego.
4. Figure – ground perception.

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

1. List any 5 ill effects of health due to anger.
2. Define attention.
3. Stages of death.
4. Traits of creative people.
5. List out the principles of classical conditioning.

SECTION-B
(SOCIOLOGY)

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

1. Define Community. Bring out the role of rural and urban communities in public health.

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

1. Sociology as a science of society.
2. Socialization in hospital.
3. Social change and deviance.
4. Modern trends of caste system in India.

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

1. Define Health.
2. Any two remedies to control population explosion.
3. Cultural traits.
4. Psychosomatic diseases.
5. Folkways.

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

[LR 1220]　　　　　　　　**DECEMBER 2020**　　　　　**Sub. Code: 6251**
(AUGUST 2020 EXAM SESSION)

BPT DEGREE EXAMINATION
FIRST YEAR
PAPER I –PSYCHOLOGY AND SOCIOLOGY (SEC A & SEC B)
Q.P. Code: 746251

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
(PSYCHOLOGY)

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

II. Write notes on:　　　　　　　　　　　　　　　　　　**(4 x 5 = 20)**
　　1. Approach avoidance conflict.
　　2. Primary needs.
　　3. Leadership Qualities.
　　4. Insightful learning

III. Short answers on:　　　　　　　　　　　　　　　　　**(5 x 2 = 10)**
　　1. Gestalt psychology.
　　2. Hallucination.
　　3. Perception.
　　4. Physiological changes of emotion.
　　5. Sublimation.

SECTION-B
(SOCIOLOGY)

I. Elaborate on:　　　　　　　　　　　　　　　　　　　**(1 x 20 = 20)**
　　1. Define influence of Society on child development.

II. Write notes on:　　　　　　　　　　　　　　　　　　**(4 x 5 = 20)**
　　1. Uses of study of sociology.
　　2. Decision making in taking treatment.
　　3. Juvenile delinquency.
　　4. Culture induced symptoms and disease.

III. Short answers on:　　　　　　　　　　　　　　　　　**(5 x 2 = 10)**
　　1. Polyandry.
　　2. Culture.
　　3. Caste system.
　　4. Home remedies in treatment.
　　5. Primary group characteristics.

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

[BPT 0921] **SEPTEMBER 2021** **Sub. Code: 6251**
(FEBRUARY 2021 EXAM SESSION)

BPT DEGREE EXAMINATION
FIRST YEAR
PAPER I –PSYCHOLOGY AND SOCIOLOGY (SEC A & SEC B)
Q.P. Code: 746251

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
(PSYCHOLOGY)

I. Elaborate on: **(1 x 20 = 20)**
 1. Define Attention. Explain the factors that determine Attention.

II. Write notes on: **(4 x 5 = 20)**
 1. Adolescence.
 2. Physiology of Emotion.
 3. Self-actualization.
 4. The Psycho-sexual Development.

III. Short answers on: **(5 x 2 = 10)**
 1. Infancy.
 2. List out the Schools of Psychology.
 3. Interview.
 4. Diagram of Determination of Sex.
 5. Repression.

SECTION-B
(SOCIOLOGY)

I. Elaborate on: **(1 x 20 = 20)**
 1. Discuss the role of primary and secondary groups in the hospital and rehabilitation.

II. Write notes on: **(4 x 5 = 20)**
 1. Application of knowledge of Sociology in Physiotherapy.
 2. Influence of the family on Personality.
 3. Culture Induced Symptoms and Diseases.
 4. Functions of Medical Social Worker.

III. Short answers on: **(5 x 2 = 10)**
 1. Define Health.
 2. List the caste hierarchy on occupational basis.
 3. Write any five traditional forms of marriage.
 4. Characteristics of norms.
 5. Types of poverty.

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

[BPT 0122]   JANUARY 2022   Sub. Code: 6251
(AUGUST 2021 EXAM SESSION)

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FIRST YEAR
PAPER I –PSYCHOLOGY AND SOCIOLOGY (SEC A & SEC B)
Q.P. Code: 746251

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
(PSYCHOLOGY)

I. Elaborate on: (1 x 20 = 20)
1. Adolescence is a Period of Development and Crisis.

II. Write notes on: (4 x 5 = 20)
1. Emotion and Health.
2. Secondary Motives.
3. Heredity and Environment.
4. Projective Tests.

III. Short answers on: (5 x 2 = 10)
1. Intelligence.
2. List out the internal factors of attention.
3. Twins mechanisms.
4. Gestalt Psychology.
5. Reaction Formation.

SECTION-B
(SOCIOLOGY)

I. Elaborate on: (1 x 20 = 20)
1. Describe the factors causing social changes. Briefly point out the negative effect of fast changes in a traditional society like India.

II. Write notes on: (4 x 5 = 20)
1. Social factors affecting health Status.
2. Socialization in hospitals.
3. Sub Culture of Medical Workers.
4. Causes of Crime.

III. Short answers on: (5 x 2 = 10)
1. Cultural lag?
2. Stages of Socialization.
3. Types of Social stratification.
4. Remedial measures of juvenile Delinquency.
5. Write the social security schemes to the disabled.

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

[LN 6272]   **AUGUST 2018**   Sub. Code : 6272

FIRST YEAR BPT EXAMINATION
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER I –PSYCHOLOGY AND SOCIOLOGY

Q.P. Code: 746272

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

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

1. Define Learning. Discuss Trial and Error Learning.

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

1. Experimental Method.
2. Middle Age.
3. Projective Test.
4. Creative Thinking.

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

1. Gestalt.
2. Mental Age.
3. Name sources of Frustration.
4. Illusion.
5. Temperament.

SECTION-B
(SOCIOLOGY)

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

1. Define Social Control. Explain the means of Social Control.

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

1. Features of Cast System.
2. Role of Urban Community in Public Health.
3. Functions of Family.
4. Impact of Population on Society.

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

1. Imitation.
2. Father of Sociology.
3. Name the factors of Social Change.
4. Medical Social Worker.
5. Psychosomatic Disease.

****

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

[LO 6272]   **FEBRUARY 2019**   Sub. Code : 6272

FIRST YEAR BPT EXAMINATION
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER I –PSYCHOLOGY AND SOCIOLOGY

Q.P. Code: 746272

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. Explain the psychoanalytic theory of personality.

II. Write notes on: **(5 x 5 = 25)**

1. Hunger and thirst motive.
2. Environment.
3. RPM.
4. Experimental method.
5. Explain factors determine Attention.

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

1. List the chemical senses.
2. Approach approach conflict.
3. Define leadership.
4. Motivation cycle.
5. List any four effective ways of learning.

SECTION-B
(SOCIOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. Explain the institution of health and their role in the improvement of health.

II. Write notes on: **(5 x 5 = 25)**

1. Write about the functions of family.
2. What is community and write it's characteristics?
3. List out the factors affecting social change.
4. Define culture, its types and its features.
5. Social deviance and disease.

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

1. Define Health.
2. Define Juvenile Delinquency.
3. What is Norms? Give two examples.
4. What is socialization?
5. Define caste system.

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

[LP 6272]   **AUGUST 2019**   Sub. Code : 6272

FIRST YEAR BPT EXAMINATION
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER I –PSYCHOLOGY AND SOCIOLOGY

Q.P. Code: 746272

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. Explain in detail about primary and secondary motives.

II. Write notes on: **(5 x 5 = 25)**

1. Classical conditioning learning.
2. Types of attention.
3. Projective techniques.
4. Changes of emotion.
5. Explain observational method.

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

1. Name the schools of psychology.
2. IQ ratio.
3. Fraternal twin.
4. Perceptual disorder.
5. Steps in creative thinking.

SECTION-B
(SOCIOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. Define sociology. Explain its uses, scope and the applications of sociological knowledge in physiotherapy.

II. Write notes on: **(5 x 5 = 25)**

1. Briefly write about family and nutrition.
2. Write about the role of medical social worker.
3. Agencies of socialization.
4. List out the factors affecting health.
5. Culture induced symptoms and disease.

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

1. Define joint family.
2. What is community?
3. What is social security?
4. Write any two causes of over population.
5. Write any four types of groups.

****

[LQ 6272]   **FEBRUARY 2020**   Sub. Code : 6272

FIRST YEAR BPT EXAMINATION
(Regulations for the candidates admitted from 2017-2018 onwards)
PAPER I –PSYCHOLOGY AND SOCIOLOGY

Q.P. Code: 746272

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

Section A and B must be answered in SEPARATE Answer Book
Draw suitable diagrams wherever necessary.

SECTION – A
(PSYCHOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. What about the importance and knowledge of psychology in physiotherapy profession.

II. Write notes on: **(5 x 5 = 25)**

1. Clinical conditioning.
2. Illusion and hallucination.
3. Psychosexual development stage.
4. Internal factors of attention.
5. Explain Gestalt school of Psychology.

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

1. Trails of creative thinking.
2. Pure psychology.
3. Attitude.
4. Concept of IQ.
5. Quality of good leaders.

SECTION-B
(SOCIOLOGY)

I. Elaborate on: **(1 x 15 = 15)**

1. Discuss the various means of Social Control in regulation of human behavior.

II. Write notes on: **(5 x 5 = 25)**

1. Discuss about the process of socialization.
2. Social groups.
3. Role of community in public health.
4. Social problems.
5. Role of social planning in the improvement of health and Rehabilitation.

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

1. Write two differences between sociology and anthropology.
2. Mention the types of family.
3. What is culture?
4. What is social change?
5. Types of beggary.

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

[LR 1220] **DECEMBER 2020** **Sub. Code: 6272**
(AUGUST 2020 EXAM SESSION)

BPT DEGREE EXAMINATION
FIRST YEAR
(New regulations for the candidates admitted from 2017-2018 onwards)
PAPER I –PSYCHOLOGY AND SOCIOLOGY
Q.P. Code: 746272

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
(PSYCHOLOGY)
I. Elaborate on: **(1 x 15 = 15)**
1. Explain the theory of classic conditioning with Ivan Pavlov experiment.

II. Write notes on: **(5 x 5 = 25)**
1. Reinforcement.
2. Similarity between classical and operant conditioning.
3. Explain Thorndike's trail.
4. Maslow's view point.
5. Step in creative thinking.

III. Short answers on: **(5 x 2 = 10)**
1. Role of RAS.
2. Finger ground perception.
3. Biological needs.
4. Delusion.
5. Applied Psychology.

SECTION-B
(SOCIOLOGY)
I. Elaborate on: **(1 x 15 = 15)**
1. Define social security and social legislations in relation to the disabled.

II. Write notes on: **(5 x 5 = 25)**
1. Home remedies in treatment.
2. Family and psychosomatic disorders.
3. What is primary group and its features?
4. Write the agencies of social control.
5. Socialization in hospitals.

III. Short answers on: **(5 x 2 = 10)**
1. Define Sociology.
2. Write the types of poverty.
3. Who is the father of sociology and which philosopher he was?
4. What is 'Taboos'?
5. Define culture.

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[BPT 0321]   **MARCH 2021**   Sub. Code: 6272
(AUGUST 2020 EXAM SESSION)

BPT DEGREE EXAMINATION
FIRST YEAR (From 2019-2020 onwards)
PAPER I –PSYCHOLOGY AND SOCIOLOGY
Q.P. Code: 746272

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
(PSYCHOLOGY)

I. Elaborate on: **(1 x 15 = 15)**
  1. Define Thinking. Explain the Tools of Thinking.

II. Write notes on: **(5 x 5 = 25)**
  1. Scope of Psychology.
  2. Physiological changes during Emotions.
  3. Psycho-analysis.
  4. Old age and the stages of Dying.
  5. Illusion and Hallucination.

III. Short answers on: **(5 x 2 = 10)**
  1. Introspection.
  2. Sheldon's Classification of Personality.
  3. Creative Thinking.
  4. Sensation.
  5. Parapsychology.

SECTION-B
(SOCIOLOGY)

I. Elaborate on: **(1 x 15 = 15)**
  1. The various steps of decision making of the clients in taking treatment.

II. Write notes on: **(5 x 5 = 25)**
  1. Mention the theories of Socialization and describe any one theory.
  2. Describe the influence of social factors on Personality.
  3. The influence of Informal Groups on health and sickness.
  4. Influence of Family on human personality.
  5. Common Psychosomatic disorders.

III. Short answers on: **(5 x 2 = 10)**
  1. Socialization and Rehabilitation.
  2. Types of Beggary.
  3. The impact of culture on human behavior – Positive and Negative.
  4. Social Change and Stress.
  5. Direct Social Control and Indirect Social Control.

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BPT DEGREE EXAMINATION
FIRST YEAR - (Regulations for the candidates admitted from 2017-2018 onwards)
PAPER I –PSYCHOLOGY AND SOCIOLOGY
Q.P. Code: 746272

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
(PSYCHOLOGY)

I. Elaborate on: **(1 x 15 = 15)**
   1. Define Perception. Explain the Principles of perception.

II. Write notes on: **(5 x 5 = 25)**
   1. The Structure of Psyche.
   2. RAS.
   3. Adulthood.
   4. Types of Conflicts.
   5. Effective ways to Learn.

III. Short answers on: **(5 x 2 = 10)**
   1. IQ.
   2. Primary Needs.
   3. Characteristics of Creative Thinkers.
   4. Delusion.
   5. Types of Leaders.

SECTION-B
(SOCIOLOGY)

I. Elaborate on: **(1 x 15 = 15)**
   1. Agencies of Socialization.

II. Write notes on: **(5 x 5 = 25)**
   1. Describe Cooley's Theory of Looking – Glass Self.
   2. The types of Rehabilitation.
   3. Difference between Primary and Secondary groups.
   4. Influence of Family on individual health.
   5. Role of Urban communities in public health.

III. Short answers on: **(5 x 2 = 10)**
   1. Maslow's theory of hierarchical needs.
   2. Home remedies in some diseases in the Rural Communities.
   3. Medical Social Worker.
   4. Need for Social Control.
   5. Types of Poverty.

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[BPT 0122]　　　　　　　**JANUARY 2022**　　　　**Sub. Code: 6272**
(AUGUST 2021 EXAM SESSION)

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FIRST YEAR- (Regulation from 2017-2018 onwards)
PAPER I –PSYCHOLOGY AND SOCIOLOGY
Q.P. Code: 746272

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
(PSYCHOLOGY)

I. Elaborate on:　　　　　　　　　　　　　　　　　　**(1 x 15 = 15)**
　1. Define heredity and environment, explain in detail the role of heredity and environment in an individual.

II. Write notes on:　　　　　　　　　　　　　　　　　**(5 x 5 = 25)**
　1. Psycho sexual development.
　2. Principles of classical conditioning and types of learning.
　3. Thematic Apperception Test.
　4. Primary motives.
　5. Types of thinking.

III. Short answers on:　　　　　　　　　　　　　　　　**(5 x 2 = 10)**
　1. Kinds of emotions.
　2. Hallucination.
　3. Intelligence Quotient.
　4. Branches of General Psychology.
　5. Illusion of movement.

SECTION-B
(SOCIOLOGY)

I. Elaborate on:　　　　　　　　　　　　　　　　　　**(1 x 15 = 15)**
　1. Elaborate on Social security measures.

II. Write notes on:　　　　　　　　　　　　　　　　　**(5 x 5 = 25)**
　1. Impact of social consciousness on decision making in taking treatment.
　2. Function of rural and urban communities in public health.
　3. Importance of socialization in rehabilitation of patients.
　4. Culture induced symptoms and disease.
　5. Role of primary groups in the hospital settings.

III. Short answers on:　　　　　　　　　　　　　　　　**(5 x 2 = 10)**
　1. Juvenile delinquency.
　2. Define secondary groups.
　3. Factors of social change.
　4. Components of culture.
　5. Meaning of social control.

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