FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY AND PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 marks

Answer ALL questions

I. Elaborate on: $(3 \times 10 = 30)$

- 1. Describe the Structure of the heart and its blood supply.
- 2. Composition of blood and its functions.
- 3. Classification of joints. Describe in detail about synovial joint.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Anatomical planes of the body.
- 2. Functions of bile.
- 3. Nephron.
- 4. Micturition reflex.
- 5. Menstrual cycle.
- 6. Thyroid gland.
- 7. Types of nerves.
- 8. Functions of Cerebellum.

III. Short Answers on: $(10 \times 3 = 30)$

- 1. Hormones secreted by the anterior pituitary.
- 2. Jaundice.
- 3. Name parts of typical vertebra.
- 4. Name major arteries of the upper limb.
- 5. Diaphragm.
- 6. Acromegaly.
- 7. Cardiopulmonary resuscitation.
- 8. Types of bones.
- 9. Blood brain barrier.
- 10. Erythrocyte sedimentation rate.

FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY AND PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time : Three Hours	Maximum: 100 marks		
Answer ALL questions in the same order.			
I. Elaborate on:	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Classify the joints and describe about the synovial joints.	7	20 min.	10
2. Describe the structure of stomach and its functions.	7	20 min.	10
3. Describe the different types of circulations.	7	20 min.	10
II. Write notes on:			
1. Anatomical planes of the body.	4	10 min	. 5
2. Fertilization.	4	10 min	. 5
3. Cardiac cycle.	4	10 min	. 5
4. Membranes.	4	10 min	. 5
5. Spinal cord.	4	10 min	. 5
6. Islets of Langerhans.	4	10 min	. 5
7. Tissues.	4	10 min	. 5
8. Shock.	4	10 min	. 5
III. Short Answers on:			
1. Classification of Bones.	2	4 min.	3
2. Types of injuries.	2	4 min.	3
3. Types of Respiration.	2	4 min.	3
4. Appendicular Skeleton.	2	4 min.	3
5. Functions of Lymph.	2	4 min.	3
6. Wound Healing.	2	4 min.	3
7. Meninges.	2	4 min.	3
8. Myxodema.	2	4 min.	3
9. Olfactory path way.	2	4 min.	3
10. Cystitis.	2	4 min.	3

FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY AND PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 marks

Answer ALL questions

I. Elaborate on: $(3 \times 10 = 30)$

1. Describe structure of the pituitary gland, hormones secreted by the anterior pituitary and their functions.

- 2. Elaborate on the structure of the kidney and its functions.
- 3. Composition of blood and its functions.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Anatomy of breast.
- 2. Lung collapse.
- 3. CSF circulation.
- 4. Physiology of swallowing.
- 5. Portal venous system.
- 6. Cardiac valves.
- 7. Lymphatic organs and tissues.
- 8. Optic pathway.

III. Short Answers on: $(10 \times 3 = 30)$

- 1. Name the cranial nerves.
- 2. Functions of adrenal medulla.
- 3. General structure of long bone.
- 4. Parts of male urethra.
- 5. Name the bones of the face.
- 6. Aneurysms.
- 7. Lacrimal gland.
- 8. Meninges.
- 9. Glial cells.
- 10. Gall bladder.

FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY AND PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 marks

Answer ALL questions

I. Elaborate on: $(3 \times 10 = 30)$

1. Describe the anatomy of the lungs and functions of the respiratory system. A

- 2. Boundries and contents of the inguinal canal. Write notes on inguinal hernia.
- 3. Functional anatomy and functions of the digestive system.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Visual pathway.
- 2. Juxta glomerular apparatus.
- 3. Contraceptives.
- 4. Circle of willis.
- 5. Schilling test.
- 6. Trendlenburg sign.
- 7. Anticoagulants.
- 8. Fourth ventricle.

III. Short Answers on: $(10 \times 3 = 30)$

- 1. Tests for hearing.
- 2. Hyaline cartilage.
- 3. Mechanism of contraction of muscle.
- 4. Quadriceps femoris.
- 5. Packed cell volume.
- 6. Adrenal gland.
- 7. Absolute eosinophil count.
- 8. Transport of respiratory gases.
- 9. Tests for ovulation.
- 10. Popliteal fossa.

FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY AND PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 marks

Answer ALL questions

I. Elaborate on: $(3 \times 10 = 30)$

1. Write in detail about heart and its blood supply.

- 2. Write in detail about uterus and physiology of ovary.
- 3. Write in detail about respiratory system parts and its functions.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Formation of blood?
- 2. Disorders of blood pressure.
- 3. Vascular supply of upper limb.
- 4. Anatomy of Portal vein.
- 5. Parts of urinary bladder and its function.
- 6. How Kidney function in disease.
- 7. Define functions of cerebellum.
- 8. What are the Hormones from adrenal gland?

III. Short Answers on: $(10 \times 3 = 30)$

- 1. Name the lymph nodes in inguinal region.
- 2. Supports of uterus.
- 3. Types of nerve fibres.
- 4. Name the ventricles in brain.
- 5. Functions of liver.
- 6. Define anemia.
- 7. What is blood brain barrier?
- 8. Mention hormones of thyroid gland.
- 9. Define neoplasia.
- 10. Stages of wound healing.

FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY AND PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 marks

Answer ALL questions

I. Elaborate on: $(3 \times 10 = 30)$

- 1. Describe the anatomy and functions of stomach.
- 2. What are the Endocrine glands? Explain the hormones secreted the pituitary gland.
- 3. Describe the vertebral column in detail.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Nephron.
- 2. Degultition.
- 3. Intercostal space.
- 4. Circle of willis.
- 5. Cardiac cycle.
- 6. Fertilization.
- 7. Physiology of taste.
- 8. Mechanism of Respiration.

III. Short Answers on: $(10 \times 3 = 30)$

- 1. Mastication.
- 2. Pancreas.
- 3. Receptors.
- 4. Coagulation of blood.
- 5. Pluera.
- 6. Cerebro spinal fluid.
- 7. Sutures.
- 8. Epididymis.
- 9. Edema.
- 10. Mammary gland.

FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY AND PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 marks

Answer ALL questions

I. Elaborate on: $(3 \times 10 = 30)$

1. Describe the Lymphatic system in detail with special mention about the thoracic duct.

- 2. Describe the structure and functions of a cell.
- 3. Describe Nephron, formation of urine and physiology of micturition.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Types of Circulation and Explain portal circulation.
- 2. Diaphragm.
- 3. Arches of foot.
- 4. Cardiac Muscles.
- 5. Supra renal gland.
- 6. Menstrual cycle.
- 7. Anatomy of ear and physiology of hearing.
- 8. Different types of tumors and their spread.

III. Short Answers on: $(10 \times 3 = 30)$

- 1. Plueral effusion.
- 2. Benign hypertrophy of prostate.
- 3. Vulva.
- 4. Spinal cord.
- 5. Absorption.
- 6. Urinary Bladder.
- 7. Blood Grouping and the importance.
- 8. Meningitis.
- 9. Fracture of bones.
- 10. Refractory errors.

FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY AND PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 marks

Answer ALL questions

I. Elaborate on: $(3 \times 10 = 30)$

1. Describe the structure of skeletal muscle and physiology of muscle contraction.

- 2. What are endocrine glands and describe in detail about the hormones secreted by pituitary gland?
- 3. What is diabetes and explain in detail about the types and its pathological condition?

II. Write notes on: $(8 \times 5 = 40)$

- 1. Describe nephron.
- 2. Placenta.
- 3. Mechanism of respiration.
- 4. Sickle cell anaemia.
- 5. Process of blood coagulation.
- 6. Describe the structure and functions of cerebellum.
- 7. Myocardial infraction and its features.
- 8. Explain CSF and its functions.

III. Short Answers on:

 $(10 \times 3 = 30)$

- 1. Draw a neat labeled diagram of a neuron.
- 2. Trendlenburg sign.
- 3. Stages of wound healing.
- 4. Filum terminale.
- 5. Thalesemia.
- 6. Define appendicitis.
- 7. What is hernia? Name one example.
- 8. Name the vitamin deficiency for rickets and give its symptoms.
- 9. What is aneurysm and give on example?
- 10. Name the bones of upper limb.

B.Sc. RADIOLOGY IMAGING TECHNOLOGY FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY AND PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 Marks

Answer All questions.

I. Elaborate on: $(3 \times 10 = 30)$

1. Describe the cubittal fossa under the following headings – Boundaries, contents and applied anatomy.

- 2. Classify the joints with an example and a suitable diagram.
- 3. Define anaemia, its classification, symptoms and pathophysiology.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Bronchopulmonary segments.
- 2. Portal circulation.
- 3. Lymphoedema.
- 4. Electrocardiogram (ECG).
- 5. Cardiomegaly in X-ray view.
- 6. Describe the structure and contents of uterus.
- 7. Polycystic kidney.
- 8. Neuromuscular junction.

III. Short answers on:

 $(10 \times 3 = 30)$

Sub.Code :1801

- 1. Name the meninges.
- 2. Name two types of tumour with one example for each.
- 3. Name the procedure for the radiological view of kidney and breast.
- 4. Name the hormones and enzymes secreted by pancreas.
- 5. Draw a neat labeled diagram of a Pacinian corpuscle.
- 6. Name the lymphatic organs.
- 7. Name the pigments of liver.
- 8. Name the parts of scapula.
- 9. Down's syndrome.
- 10. What is Postero-Anterior view in radiology?

FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY AND PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 Marks

Answer All questions.

I. Elaborate on: $(3 \times 10 = 30)$

1. Describe the structure of stomach and its functions.

- 2. Define anaemia, its classification, symptoms and pathophysiology.
- 3. Discuss the mechanism of Blood coagulation in detail.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Gluteus Maximus.
- 2. Blood supply of brain.
- 3. Functions of placenta.
- 4. Functions of cerebellum.
- 5. Surfactant.
- 6. Jaundice.
- 7. Importance of Radio imaging of mammary gland.
- 8. Vomiting.

III. Short answers on: $(10 \times 3 = 30)$

- 1. Deltoid muscle.
- 2. Types of bones.
- 3. Surface Anatomy of heart.
- 4. Mention any three functions of saliva.
- 5. Functions of liver.
- 6. Myopia and its correction.
- 7. Differences between Type I and Type II Diabetes Mellitus.
- 8. Vermiform appendix.
- 9. Write any two non- respiratory functions of lungs.
- 10. Define neoplasia.

FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY AND PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 Marks

Answer All questions.

I. Elaborate on: $(3 \times 10 = 30)$

1. Describe the Cubittal fossa under the following headings— Boundaries, contents and applied anatomy.

- 2. Describe structure of the pituitary gland, hormones secreted by the anterior pituitary gland. Discuss the functions and regulation of Growth hormone secretion in detail.
- 3. What is Diabetes Mellitus and explain in detail about the types and its etiopathogenesis?

II. Write notes on: $(8 \times 5 = 40)$

- 1. Boundaries and contents of inguinal canal.
- 2. Pectoralis Major.
- 3. Bronchopulmonary segments.
- 4. Structure and functions of a cell.
- 5. Contraception in females.
- 6. Rh incompatibility.
- 7. Odema and its types.
- 8. Composition and Functions of CSF.

III. Short answers on:

 $(10 \times 3 = 30)$

Sub.Code :1801

- 1. Parts of scapula.
- 2. Typical intercostal nerve.
- 3. Mention any two Anticoagulants and its functions.
- 4. Hypothyroidism in adults.
- 5. Write any three factors that affect blood pressure.
- 6. Microcytic hypochromic anemia.
- 7. Muscles of forearm.
- 8. Erb's paralysis.
- 9. Down's syndrome.
- 10. Proteolytic enzymes.

B.Sc. RADIOLOGY IMAGING TECHNOLOGY FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY & PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 Marks

Answer all questions

I. Elaborate on: $(3 \times 10 = 30)$

1. With a neat diagram, explain arch of Aorta and blood supply to brain in detail.

- 2. Explain female reproductive system in detail.
- 3. Enumerate parts of respiratory system and explain lungs in detail.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Explain synovial joint and give examples.
- 2. Cerebrospinal fluid production and function.
- 3. Explain meninges and its function.
- 4. Adrenal Gland.
- 5. Oesophagus.
- 6. Explain spleen in detail.
- 7. Para nasal sinuses.
- 8. Cervical vertebrae.

III. Short answers on:

 $(10 \times 3 = 30)$

- 1. Residual volume of lung.
- 2. Breathing mechanism.
- 3. Bones of Hip joint.
- 4. Name bones of wrist joints.
- 5. Write shortly on 'intussusception'.
- 6. Pancreatitis.
- 7. Parts of large intestine.
- 8. Three functions of liver.
- 9. Layers of blood vessels.
- 10. Name the sinuses of brain.

Sub. Code: 1801

B.Sc. RADIOLOGY IMAGING TECHNOLOGY

FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY & PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 Marks

Answer all questions

I. Elaborate on: $(3 \times 10 = 30)$

1. With a neat diagram, explain bones of skull in detail.

- 2. Explain heart and its function in detail.
- 3. Elaborate the parts of brain and function of lobes in detail.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Anatomy of kidney.
- 2. Parts of liver.
- 3. Gall bladder.
- 4. Male reproductive organ.
- 5. Conducting system of heart.
- 6. Pulmonary circulation.
- 7. Lumbar vertebrae.
- 8. Circle of Willis.

III. Short answers on: $(10 \times 3 = 30)$

- 1. Deep venous thrombosis.
- 2. Causes of Heart failure.
- 3. What is Atrial Septal Defect?
- 4. Name cranial nerves.
- 5. Hormones of anterior pituitary.
- 6. Hydronephrosis.
- 7. Muscles of breathing.
- 8. Bones of pelvis.
- 9. Importance of cardiac muscles.
- 10. Elbow joint.

B.Sc. RADIOLOGY IMAGING TECHNOLOGY

FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY & PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 Marks

Answer all questions

I. Elaborate on: $(3 \times 10 = 30)$

1. Draw the parts of Lungs. Write the mechanism of Respiration.

- 2. Draw the C/S of Heart and Label. Describe the cardiac cycle.
- 3. Write the types of Joints with example. Describe Shoulder joint with diagram.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Cerebro Spinal Fluid.
- 2. Write about the structure of Breast.
- 3. Draw and Label C/S of Skin and Write the Function of Skin.
- 4. Draw the structure in Female and Male Pelvis and Label.
- 5. Explain Lymph Node.
- 6. Explain Hypothalamus and its functions.
- 7. Describe Mandible.
- 8. Describe Testes.

III. Short answers on: $(10 \times 3 = 30)$

- 1. Draw a Neuron and name the parts.
- 2. Draw C/O Eye ball and Label.
- 3. Name the Ossicles of Ear.
- 4. What are Muscles of Respiration?
- 5. What is a Trigone?
- 6. Write the types of Muscles with example.
- 7. Draw and Label a Typical Rib.
- 8. What are the types of Circulation?
- 9. What are Axial and Appendular Skeleton?
- 10. Name the parts of Male Urethra.

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 $(10 \times 3 = 30)$

B.Sc. RADIOLOGY IMAGING TECHNOLOGY

FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY & PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 Marks

Answer all questions

I. Elaborate on: $(3 \times 10 = 30)$

1. Name the Endocrine glands. Describe the pituitary hormones.

- 2. Draw the C/S of Kidney and label. Describe the Formulation of Urine.
- 3. Draw the parts of Alimentary canal. Describe the digestive juices.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Name the bones, sutures of skull with diagram and Write the functions of Skull.
- 2. Write notes on Appendix.
- 3. Describe the Arch of Aorta and Branches.
- 4. Explain Hypothalamus and its functions.
- 5. What are the structure and functions of Liver?
- 6. Describe Pharynx.
- 7. Describe the Conducting system of Heart.
- 8. Explain about Circle of Willis.

III. Short answers on:

- 1. Write the boundaries of Thoracic Cavity.
- 2. Describe Prostate.
- 3. Draw and Label the Lobes of Brain.
- 4. Write the components of synovial joint.
- 5. Write about the Tarsal bones.
- 6. What is Vocal Cords?
- 7. What are internal and External Respiration?
- 8. Write about the composition of Blood.
- 9. Describe Myocardium.
- 10. Describe Fallopian Tubes.

B.Sc. RADIOLOGY IMAGING TECHNOLOGY FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY & PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 Marks

Answer all questions

I. Elaborate on: $(3 \times 10 = 30)$

1. Enumerate the parts of digestive system? Add a note on external features of stomach?

- 2. Explain the steps in involved in urine formation?
- 3. Draw and label the parts of Respiratory tract. Add a note on lungs?

II. Write notes on: $(8 \times 5 = 40)$

- 1. Erythroblastosis fetalis.
- 2. Time for ovulation.
- 3. Anticoagulants.
- 4. Functions of lymph.
- 5. Nephron.
- 6. Cretinism.
- 7. Functions of saliva.
- 8. Juxta glomerular apparatus.

III. Short answers on: $(10 \times 3 = 30)$

- 1. Hormones of posterior pituitary gland.
- 2. Physiological jaundice.
- 3. Types of tumor.
- 4. Function of thyroid hormone.
- 5. Name some neuromuscular blockers.
- 6. Any two functions of CSF.
- 7. Types of injuries.
- 8. Methods of contraception.
- 9. List the Lobes of cerebrum.
- 10. Types of fractures.

B.Sc. RADIOLOGY IMAGING TECHNOLOGY

FIRST YEAR

PAPER I – HUMAN ANATOMY, PHYSIOLOGY & PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 Marks

Answer all questions

I. Elaborate on: $(3 \times 10 = 30)$

1. Draw the C/S of Heart. Describe the conducting system of heart with cardiac cycle.

- 2. What is Diabetes Mellitus? Describe its etiology, Pathophysiology and treatment?
- 3. Describe the steps involved in Excitation contraction coupling?

II. Write notes on: $(8 \times 5 = 40)$

- 1. A typical Lumbar Vertebrae.
- 2. Para Nasal Sinuses.
- 3. Describe Cerebellum.
- 4. Draw a cell and Label. What are Golgi apparatus?
- 5. Explain Nephron with diagram.
- 6. Describe the classification of joints with example.
- 7. Describe Spleen.
- 8. Name the parts of Female Reproductive system and their functions.

III. Short answers on:

 $(10 \times 3 = 30)$

Sub. Code: 1801

- 1. What are the anatomical regions of Abdomen? What are Rugae and where are they found?
- 2. What is Myocardium?
- 3. Types of jaundice.
- 4. Draw Biliary tree and Label.
- 5. What are the types of bones? Give example.
- 6. Name the glands in Endocrine glands.
- 7. What are Axial and Appendicular skeleton?
- 8. What are the Layers of Alimentary Canal?
- 9. What is Omentum?
- 10. What are the Intercostal Muscles?

[AHS 0321] MARCH 2021 Sub. Code: 1801

(AUGUST 2020 EXAM SESSION)

B.Sc. RADIOLOGY IMAGING TECHNOLOGY FIRST YEAR (Regulations 2010-2011 &2014-2015)

PAPER I – HUMAN ANATOMY, PHYSIOLOGY AND PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three hours Answer ALL Questions Maximum: 100 Marks

I. Elaborate on: $(3 \times 10 = 30)$

1. Name the hormones secreted by anterior pituitary gland. Explain in detail about Growth hormone?

- 2. What is Diabetes Mellitus? Describe its etiology, Pathophysiology and treatment?
- 3. Describe the steps involved in Excitation contraction coupling?

II. Write notes on: $(8 \times 5 = 40)$

- 1. Visual pathway.
- 2. Anatomical planes of body.
- 3. Boundaries of Cubital fossa and its clinical significance.
- 4. Tetany.
- 5. ABO system.
- 6. Pharyngeal phase of deglutition.
- 7. Tuberculosis.
- 8. Edema and its types.

III. Short answers on:

 $(10 \times 3 = 30)$

- 1. Erb's paralysis.
- 2. Name contents of inguinal canal.
- 3. Any three Functions of placenta.
- 4. Name the types of joints.
- 5. Blood brain barrier.
- 6. Types of jaundice.
- 7. Name the waves of ECG.
- 8. Name some anticoagulants.
- 9. Pleural effusion.
- 10. Myopia and its correction.

[AHS 0422] APRIL 2022 Sub. Code: 1801

(FEBRUARY 2021 & AUGUST 2021 EXAM SESSIONS)

B.Sc. RADIOLOGY AND IMAGING TECHNOLOGY

FIRST YEAR (Regulation 2010-2011 & 2014-2015)

PAPER I – HUMAN ANATOMY, PHYSIOLOGY & PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 Marks

Answer All questions

I. Elaborate on: (3X10=30)

- 1. Classification of joints. Describe in detail about synovial joint.
- 2. Elaborate on the structure of the kidney and its functions.
- 3. Define anemia, its classification, symptoms and pathophysiology.

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

- 1. Paranasal sinuses.
- 2. Functions of placenta.
- 3. Bronchopulmonary segments.
- 4. Structure and functions of a cell.
- 5. Functions of cerebellum.
- 6. Explain prostate and seminal vesicles in detail.
- 7. Conducting system of heart.
- 8. Lumbar vertebrae.

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

- 1. Draw and Label pharynx.
- 2. Layers of blood vessels.
- 3. Name the parts of Male Urethra.
- 4. Draw and label the parts of lymph node.
- 5. Name the sinuses of brain.
- 6. Write about the carpel bones.
- 7. Muscles of breathing.
- 8. Any three functions of liver.
- 9. Proteolytic enzymes.
- 10. Draw and label Aorta.

[AHS 1122] NOVEMBER 2022 Sub. Code: 1801

B.Sc. RADIOLOGY IMAGING TECHNOLOGY FIRST YEAR (Regulations 2010-2011 & 2014-2015)

PAPER I – HUMAN ANATOMY, PHYSIOLOGY & PATHOLOGY RELEVANT TO RADIOLOGY

Q. P. Code: 801801

Time: Three hours Maximum: 100 Marks

Answer ALL Questions

I. Elaborate on: $(3 \times 10 = 30)$

- 1. Explain with diagram the anatomy of liver. Write the functions of liver and add a note on liver function tests.
- 2. Discuss the classification of bones. Add a note on bones of the skull.
- 3. Write in detail about the anatomy and functions of spinal cord. Add a note on sensory pathway of spinal cord.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Write about the anatomy of bronchial tree with diagram.
- 2. Explain the physiology of digestion of food components.
- 3. Explain the function of various parts of heart.
- 4. Explain the physiology of urine formation.
- 5. Write a note on blood disorders.
- 6. Explain the parts of female reproductive system with diagram.
- 7. Describe the anatomy of urinary bladder with diagram.
- 8. Describe the structure and function of salivary glands.

III. Short answers on: $(10 \times 3 = 30)$

- 1. Write about the formation of cerebrospinal fluid.
- 2. Name the endocrine glands.
- 3. Write the layers of Meninges.
- 4. Draw and explain the lymphatic pathway outline.
- 5. Explain the parts of stomach with diagram.
- 6. Blood group systems.
- 7. Name the parts of the testis with diagram.
- 8. Functions of ribosomes.
- 9. Function of venous system.
- 10. Write about physiology of hearing.

[AHS 0423] APRIL 2023 Sub. Code: 1801

B.Sc. RADIOLOGY IMAGING TECHNOLOGY FIRST YEAR (Regulations 2010-2011 & 2014-2015 onwards) PAPER I – HUMAN ANATOMY, PHYSIOLOGY & PATHOLOGY RELEVANT TO RADIOLOGY

Q.P. Code: 801801

Time: Three Hours Maximum: 100 Marks

Answer All questions

I. Elaborate on: $(3 \times 10 = 30)$

- 1. Explain the functions of Kidney. Add a note of pathophysiology of Renal diseases and Oedema.
- 2. Write in detail about the various parts of the Digestive system. Add a note on pathophysiology of Jaundice.
- 3. What are Endocrine Glands? Write in detail about the hormones secreted by them and their functions.

II. Write Notes on : $(8 \times 5 = 40)$

- 1. Discuss the bones and joints of Lower extremity.
- 2. Write a note on coagulation of Blood.
- 3. Structure and functions of Paranasal sinuses.
- 4. Anatomy of Upper Respiratory Tract.
- 5. Describe the structure and function of human cell with diagram.
- 6. Write briefly about common Cardiovascular disorders.
- 7. Structure and function of Female Reproductive System.
- 8. Circulation of CSF.

III. Short Answers on:

 $(10 \times 3 = 30)$

- 1. Name the bones of the Face.
- 2. Name the parts of Male reproductive system.
- 3. Functions of Lymph glands.
- 4. Functions of Liver.
- 5. Name the joints of Shoulder girdle.
- 6. Name the Cranial nerves.
- 7. Name the Meninges of the Brian.
- 8. Name the Salivary glands.
- 9. Composition of Blood.
- 10. Name the elementary tissues of Human body.