

[LH 0815]

AUGUST 2015

Sub.Code :2241

**B.Sc. MEDICAL SOCIOLOGY
(New Syllabus 2014-2015)**

FIRST YEAR

PAPER I – ANATOMY AND PHYSIOLOGY

Q.P. Code : 802241

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on: **(3 x 10 = 30)**

1. Explain in detail about the anatomy of the digestive tract and list the functions of the organs in the digestive tract.
2. Explain the structure of the brain with a labeled diagram.
3. Explain in detail about the male reproductive system.

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

1. List the various functions of the heart.
2. Explain about the classification of joints.
3. What are the different types of tissues?
4. Describe the process of erythropoiesis
5. Explain the physiology of respiration.
6. Explain in detail about axial and appendicular skeleton.
7. Explain about skeletal muscle and its functions.
8. What is systemic circulation? Explain briefly.

III. Short Answers on: **(10 x 3 = 30)**

1. Explain about fertility.
2. List the functions of pancreas.
3. Name the four chambers of the heart.
4. List the factors influencing blood pressure.
5. List the functions of the neuron.
6. What is muscle tone?
7. Explain about spinal nerves.
8. Write about the functions of the spinal cord.
9. What are the different blood groups?
10. Define cardiac cycle.

[LJ 0816]

AUGUST 2016

Sub. Code: 2241

**B.Sc., MEDICAL SOCIOLOGY
FIRST YEAR
PAPER I – ANATOMY AND PHYSIOLOGY**

Q.P. Code: 802241

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain the intrinsic and extrinsic pathway involved in coagulation of blood.
2. Classify Joints with suitable diagrams.
3. Explain External Features of Heart. Add a note on the conducting system of Heart.

II. Write notes on:

(8 x 5 = 40)

1. Intercostal Muscles.
2. Microscopic feature of hyaline cartilage.
3. Pericardium.
4. Heart sounds.
5. Haemoglobin.
6. Hypertension.
7. Development of Bone.
8. Difference between Sympathetic and Parasympathetic system

III. Short answers on:

(10 x 3 = 30)

1. Composition of Blood.
2. Draw neat labelled diagram of cell.
3. Functional areas of Frontal Lobe of cerebrum.
4. Valves of the Heart.
5. Functions of cerebellum.
6. Contraceptive methods in Female.
7. Eosinophil.
8. Digestion in Mouth.
9. Coverings of Testis.
10. Trachea.

[LK 0217]

FEBRUARY 2017

Sub. Code: 2241

**B.Sc. MEDICAL SOCIOLOGY
FIRST YEAR
PAPER I – ANATOMY AND PHYSIOLOGY**

Q.P. Code: 802241

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain the events of Cardiac Cycle in detail.
2. Explain the various stages of Erythropoiesis in detail.
3. Classify Bones with suitable examples. Add a note on structure of Synovial Joint.

II. Write notes on:

(8 x 5 = 40)

1. Biceps brachii.
2. Ovary.
3. Structure of Neuron.
4. Platelets.
5. Role of bile in digestion.
6. Coronary artery.
7. Spermatogenesis.
8. Transitional epithelium.

III. Short answers on:

(10 x 3 = 30)

1. Muscles of Respiration.
2. Cartilage.
3. Bronchopulmonary segment of right lung.
4. Microscopic features of Cardiac Muscle.
5. Movements of small Intestine.
6. Leucocytes.
7. Mention the phases of Menstrual cycle.
8. Enumerate the cranial Nerves in order.
9. Draw a neat labeled diagram of T.S. of spinal cord.
10. Functions of pancreas.

[LL 0817]

AUGUST 2017

Sub. Code: 2241

**B.Sc. MEDICAL SOCIOLOGY
FIRST YEAR
PAPER I – ANATOMY AND PHYSIOLOGY**

Q.P. Code: 802241

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Draw a labelled diagram of the heart. Define Blood Pressure. What is the normal adult blood pressure?
2. Name the parts of the male reproductive system. Describe Spermatogenesis in brief.
3. Define “Hormone” and Endocrine gland. Name the hormones secreted by the thyroid gland along with their functions.

II. Write notes on:

(8 x 5 = 40)

1. Name the cranial nerves.
2. Composition and action of pancreatic juice.
3. Connective tissue.
4. Functions of blood.
5. Mechanism of breathing.
6. Neuroglia.
7. Liver.
8. Types of bones with examples.

III. Short answers on:

(10 x 3 = 30)

1. Vital Capacity.
2. Skeletal Muscle.
3. Name the parts of small intestine.
4. Chromosomes.
5. Name the functions of kidney.
6. Name any three movements of the alimentary tract.
7. Mention the hormones secreted by the ovary.
8. Mention any three actions of the sympathetic nervous system.
9. What are lacteals?
10. Functions of hypothalamus.

[LM 0218]

FEBRUARY 2018

Sub. Code: 2241

**B.Sc. MEDICAL SOCIOLOGY
FIRST YEAR
PAPER I – ANATOMY AND PHYSIOLOGY**

Q.P. Code: 802241

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe the composition and functions of blood.
2. Name the hormones secreted by the pituitary gland. Add a note on their functions.
3. Draw a labelled diagram of the respiratory system. Explain briefly the mechanism of breathing.

II. Write notes on:

(8 x 5 = 40)

1. Functions of the liver.
2. Draw a diagram of an animal cell and label its parts.
3. Pulmonary circulation.
4. Mechanism of formation of urine.
5. Synovial Joint.
6. Blood supply to the brain.
7. Composition and functions of gastric juice.
8. Autonomic nervous system.

III. Short answers on:

(10 x 3 = 30)

1. Name the bones of the axial skeleton.
2. Diaphragm.
3. Functions of white blood cells.
4. Name the chambers of the heart.
5. Functions of cerebrospinal fluid.
6. Name the parts of a nephron.
7. Esophagus.
8. Name the movements that occur in the large intestine.
9. Cardiac cycle.
10. Name the hormones secreted by the thyroid gland.

[LN 0818]

AUGUST 2018

Sub. Code: 2241

**B.Sc. MEDICAL SOCIOLOGY
FIRST YEAR
PAPER I – ANATOMY AND PHYSIOLOGY**

Q.P. Code: 802241

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Write an essay on blood coagulation.
2. Classify joints. Describe a synovial joint.
3. Name the parts of the nervous system and its functions.

II. Write notes on:

(8 x 5 = 40)

1. Functions of blood.
2. Layers of the alimentary canal.
3. Connective tissue.
4. Liver.
5. Structure of neuron.
6. Name any two blood groups you know. What are their uses?
7. Conducting system of heart.
8. External respiration.

III. Short answers on:

(10 x 3 = 30)

1. Tissue repair.
2. Factors influencing blood pressure.
3. Functions of stomach.
4. Spermatogenesis.
5. Tidal Volume.
6. Mitochondria.
7. Aorta.
8. Platelets.
9. Name the parts of female reproductive system.
10. Smooth Muscle.

[LP 0819]

AUGUST 2019

Sub. Code: 2241

B.Sc. MEDICAL SOCIOLOGY
FIRST YEAR
PAPER I – ANATOMY AND PHYSIOLOGY

Q.P. Code: 802241

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain the structure and functions of Cell.
2. Describe the stages of Erythropoiesis and add a note on factors influencing it.
3. Explain the Structure of the Brain with a labeled diagram.

II. Write notes on:

(8 x 5 = 40)

1. Organs of Male Reproductive system.
2. Structure of Heart.
3. Process of Deglutition.
4. Mechanics of Respiration.
5. Functions of Liver.
6. External features of Spinal cord.
7. Structure of Neuron.
8. Systemic Circulation.

III. Short answers on:

(10 x 3 = 30)

1. Functions of Saliva.
2. Smooth Muscle.
3. Types of white blood cells.
4. Muscle Tone.
5. Name the Cranial Nerves.
6. Rh Blood Group System.
7. Name the bones of the Axial Skeleton.
8. Functions of stomach.
9. Sino Atrial Node.
10. Stratified Squamous Epithelium.

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

[AHS 0321]

MARCH 2021

Sub. Code: 2241

(AUGUST 2020 EXAM SESSION)

B.Sc. MEDICAL SOCIOLOGY

FIRST YEAR (Regulations 2014-2015)

PAPER I – ANATOMY AND PHYSIOLOGY

Q.P. Code : 802241

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe the structure and function of Ovary.
2. Describe in detail about gross anatomy of Liver.
3. Describe the ABO system of blood grouping.

II. Write notes on:

(8 x 5 = 40)

1. Defecation reflex.
2. Mechanism of Oxygen Transport.
3. Functions of Spinal Cord.
4. Classification of Tissues.
5. Neuroglia and its Classification.
6. Composition and functions of Blood.
7. Classification of Muscles.
8. Anatomy of Long Bone.

III. Short answers on:

(10 x 3 = 30)

1. Mitochondria.
2. Mastication.
3. Functions of Stomach.
4. Classify Joints.
5. Chambers of Heart.
6. Draw a cross section of the spinal cord and name the parts.
7. Diaphragm.
8. Define Cardiac Cycle.
9. Coverings of Testis.
10. Functions of Hypothalamus.

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

[AHS 0422]

APRIL 2022

Sub. Code: 2241

(FEBRUARY 2021 & AUGUST 2021 EXAM SESSIONS)

B.Sc. MEDICAL SOCIOLOGY

FIRST YEAR (Regulations 2014-2015)

PAPER I- ANATOMY AND PHYSIOLOGY

Q.P NO. 802241

Time: Three Hours

Answer All questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Describe the conducting system of the Heart. Add a note on pacemaker potential.
2. Name the parts of the female reproductive system. Describe the menstrual cycle.
3. Draw the structure of the Thyroid gland. List the hormones secreted by the thyroid gland along with their functions.

II. Write notes on:

(8 x 5 = 40)

1. Dwarfism.
2. Structure of blood vessels.
3. Secondary active transport.
4. Mechanics of Respiration.
5. Autoregulation.
6. External features of Spinal cord.
7. Structure of Neuron.
8. Circle of Willis.

III. Short answers on:

(10 x 3 = 30)

1. Functions of eustachian tube.
2. Osmosis.
3. Types of white blood cells.
4. Muscle Tone.
5. Reflex arc.
6. Rh Blood Group System.
7. Name the tarsal bones.
8. Functions of stomach.
9. Name the parts of a nephron.
10. Stratified Squamous Epithelium.

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

[AHS 1122]

NOVEMBER 2022

Sub. Code: 2241

**B.Sc. MEDICAL SOCIOLOGY
FIRST YEAR (Regulation 2014-2015)
PAPER I – ANATOMY AND PHYSIOLOGY
Q.P NO. 802241**

Time: Three Hours

Answer All questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. List the coagulation factors. Explain the intrinsic and extrinsic pathway involved in coagulation of blood.
2. Classify Joints and explain each type of joint with suitable diagrams.
3. Define Blood Pressure. What are the factors affecting blood pressure?

II. Write notes on:

(8 x 5 = 40)

1. Oxygen dissociation curve.
2. Composition and action of pancreatic juice.
3. Coronary circulation.
4. Functions of blood.
5. Mechanism of respiration.
6. Structure of a neuron.
7. Spinal cord.
8. Wallerian degeneration.

III. Short answers on:

(10 x 3 = 30)

1. Name the bones of the axial skeleton.
2. Parts of Extrahepatic biliary apparatus.
3. Functions of white blood cells.
4. Types of smooth muscles.
5. Functions of cerebrospinal fluid.
6. Factors regulating fertility.
7. Deglutition apnoea.
8. Oral rehydration therapy.
9. Ear ossicles.
10. Name the hormones secreted by the thyroid gland.

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

[AHS 0423]

APRIL 2023

Sub. Code: 2241

**B.Sc. MEDICAL SOCIOLOGY
FIRST YEAR (Regulations 2014-2015 & 2018-2019 onwards)
PAPER I – ANATOMY AND PHYSIOLOGY**

Q. P. Code: 802241

Time: Three hours

Maximum : 100 Marks

Answer ALL Questions

I. Elaborate on: (3 x 10 = 30)

1. Describe the Structure and Functions of a cell with a neat labeled diagram.
2. Explain the events of Cardiac cycle.
3. Describe the Stages of Erythropoiesis and add a note on factors influencing it.

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

1. Mechanism of Nerve Impulse Conduction.
2. Functions of Liver.
3. Mechanism of Respiration.
4. Structure and functions of Uterus.
5. Cranial Nerves.
6. Coronary circulation.
7. Functions of Pancreas.
8. Structure and functions of salivary glands.

III. Short answers on: (10 x 3 = 30)

1. Functions of Spinal cord.
2. Classify Tissues.
3. Classify Joints.
4. Define Spermatogenesis.
5. Functions of Saliva.
6. Draw the diagram of lung and label its parts.
7. Parts of the Long Bone.
8. Name the parts of the alimentary tract.
9. Functions of Neuroglia.
10. Structure of a neuron.

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 2241

B.Sc. MEDICAL SOCIOLOGY

FIRST YEAR (Regulations 2014-2015 & 2018-2019 onwards)

PAPER I – ANATOMY AND PHYSIOLOGY

Q. P. Code: 802241

Time: Three hours

Maximum : 100 Marks

Answer ALL Questions

I. Elaborate on:

(3 x 10 = 30)

1. Classify Joints. Describe a Synovial joint.
2. Describe the stages of Erythropoiesis and add a note on factors influencing it.
3. Describe the conducting system of the Heart. Add a note on pacemaker potential.

II. Write notes on:

(8 x 5 = 40)

1. Circle of Willis.
2. Neuroglia and its classification.
3. Appendicular Skeleton.
4. Draw a diagram of an animal cell and label its parts.
5. Coronary artery.
6. Biceps brachii.
7. Contraceptive methods in male.
8. Heart sounds.

III. Short answers on:

(10 x 3 = 30)

1. Bombay blood group system.
2. Body fluid compartments.
3. Action potential.
4. Digestion in Mouth.
5. Structure of a Neuron.
6. Diaphragm.
7. Oogenesis.
8. Spinal cord diagram with its parts.
9. Define Infertility.
10. Types of Muscles.
