

[KZ 0811]

AUGUST 2011

Sub. Code: 2201

**B.Sc. MEDICAL SOCIOLOGY**

**FIRST YEAR**

**PAPER I – ANATOMY AND PHYSIOLOGY**

*Q.P. Code : 802201*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Discuss the various salivary glands.
2. Describe the cycle of Respiration.
3. Outline the conductor system of the heart..

**II. Write notes on:**

**(8 x 5 = 40)**

1. Atrio – ventricular valves.
2. Superior venacava.
3. Cardiac output.
4. The diaphragm.
5. Physiology of smell.
6. Brain Stem.
7. Functions of liver.
8. Alveolar gas exchange.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Plasma.
2. Types of white blood cells.
3. Coronary arteries.
4. Carbohydrates.
5. Smooth muscles.
6. Taste buds.
7. Composition of human milk.
8. Cardiac index.
9. Functions of large intestine.
10. Rhesus factor.

\*\*\*\*\*

[LB 0212]

AUGUST 2012

Sub. Code: 2201

B.Sc. MEDICAL SOCIOLOGY

FIRST YEAR

PAPER – I ANATOMY AND PHYSIOLOGY

Q.P. Code : 802201

Time : Three hours

Maximum : 100 marks

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

I. Elaborate on:

Pages Time Marks  
(Max.) (Max.) (Max.)

- |   |   |    |    |
|---|---|----|----|
| 1. Describe the mechanism of carbon dioxide and oxygen transport from the lungs to the tissues. | 7 | 20 | 10 |
| 2. Describe the position and structure of heart.  | 7 | 20 | 10 |
| 3. Describe the structure of small intestine.   | 7 | 20 | 10 |

II. Write notes on:

- |   |   |    |   |
|---|---|----|---|
| 1. What is meant by the terms diffusion and osmosis. Mention one example for the above processes in the body. | 4 | 10 | 5 |
| 2. Skeletal muscle.   | 4 | 10 | 5 |
| 3. List the various structures of the eye and mention their functions.  | 4 | 10 | 5 |
| 4. Structure of a tooth.  | 4 | 10 | 5 |
| 5. List the functions of the liver.   | 4 | 10 | 5 |
| 6. Describe the structure of an RBC. Where is it produced in the body. What are its functions.                | 4 | 10 | 5 |
| 7. What are the basic tastes. Describe the physiology of the taste sensation.                                 | 4 | 10 | 5 |
| 8. Mitochondria.  | 4 | 10 | 5 |

III. Short Answers on:

- |   |   |   |   |
|---|---|---|---|
| 1. List four functions of proteins present on the cell membrane.                        | 2 | 4 | 3 |
| 2. Name the structures present in the hilum of a lung.                                  | 2 | 4 | 3 |
| 3. List the constituents of plasma.   | 2 | 4 | 3 |
| 4. Mention the structure and function of microfilaments.                                | 2 | 4 | 3 |
| 5. What is the function of the utricle, saccule and the semicircular canals of the ear? | 2 | 4 | 3 |
| 6. List the muscles of inspiration and expiration.                                      | 2 | 4 | 3 |
| 7. Mention the parts of cerebellum.   | 2 | 4 | 3 |
| 8. What is night blindness? Mention one cause.  | 2 | 4 | 3 |
| 9. Mention the structure of a synapse.  | 2 | 4 | 3 |
| 10. What is the nerve supply of parietal pleura?  | 2 | 4 | 3 |

\*\*\*\*\*

[LC 0212]

**FEBRUARY 2013**  
**B.Sc. MEDICAL SOCIOLOGY**  
**FIRST YEAR**  
**PAPER – I ANATOMY AND PHYSIOLOGY**  
*Q.P. Code : 802201*

**Sub. Code: 2201**

**Time : Three hours**

**Maximum : 100 marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. List the various constituents of blood. What are the functions of blood and its components?
2. Describe the position and structure of larynx.
3. List the various structures present in a cell with one function of each structure.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Submandibular gland
2. What are the basic tastes? Describe the physiology of the taste sensation.
3. Different types of neurons
4. What is meant by the following terms :
  - a. Vital capacity
  - b. Residual volume
  - c. Dead space
  - d. Tidal volume
  - e. Total lung capacity
5. Aorta
6. Functions of saliva
7. Blood supply of cerebrum
8. Describe the structure of an RBC. Where is it produced in the body?  
What are its functions?

**III. Short Answers on:**

**(10 x 3 = 30)**

1. What is meant by the Rh blood group system?
2. What is meant by anemia? Mention two causes.
3. Name the parts of the conducting system and their position.
4. What are the functions of rods and cones?
5. Draw a cross section of the spinal cord and name the parts.
6. What is the normal adult respiratory rate?
7. Name three muscles of pharynx.
8. Describe the papillae of tongue.
9. Differentiate between active and passive transport in the body.
10. Mention the differences between jejunum and ileum.

\*\*\*\*\*

[LD 0212]

AUGUST 2013

Sub.Code :2201

**B.Sc. MEDICAL SOCIOLOGY  
FIRST YEAR  
PAPER I – ANATOMY AND PHYSIOLOGY  
Q.P. Code : 802201**

**Time: Three hours**

**Maximum : 100 Marks**

**Answer All questions**

**I Elaborate on: (3x10 =30)**

1. Describe the structure of the large intestine. Add a note on its blood supply.
2. Describe the Rh System of blood grouping. What is erythroblastosisfetalis?
3. Describe how oxygen is transported in the blood. Add a note on anemia.

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

1. Conducting system of heart
2. Describe the process of protein digestion and absorption in the body.
3. External features of spinal cord
4. With the help of a diagram describe the various lung volumes and capacities.
5. Left lung
6. What are the basic tastes? Describe the physiology of the taste sensation.
7. Pancreas
8. What is meant by diffusion and osmosis? Describe one example of each of these processes in the body.

**III Short Answers on: (10x3 =30)**

1. Name the three subdivisions of pharynx.
2. List the structures in the ear that help maintain equilibrium.
3. Name the parts of the gall bladder.
4. What is meant by the term homeostasis?
5. Describe the mitochondrion.
6. List the cells in the blood that help in immunity.
7. Mention three differences between jejunum and ileum.
8. Describe the neuromuscular junction.
9. What is meant by peristalsis?
10. What is meant by hypermetropia? How is it corrected?

\*\*\*\*\*

[LE 0212]

FEBRUARY 2014

Sub. Code: 2201

**B.Sc. MEDICAL SOCIOLOGY  
FIRST YEAR  
PAPER I – ANATOMY AND PHYSIOLOGY  
Q.P. Code: 802201**

**Time: Three hours**

**Maximum: 100 Marks**

**Answer all questions**

**I Elaborate on:**

**(3x10 =30)**

1. Describe the position and structure of the nasal cavity.
2. Describe the ABO system of blood grouping
3. Describe the various refractory errors of the eye and how they are corrected.

**II Write Notes on:**

**(8x5 =40)**

1. Right atrium
2. Describe the structure of the cell. List the functions of the cell membrane.
3. Parotid gland
4. Describe the mechanism of color vision.
5. Blood supply of cerebrum
6. Nucleus of a cell
7. Describe the process of oxygen transport in the blood from the lungs to the tissues
8. List the enzymes required for carbohydrate digestion, their source and their actions.

**III Short Answers on:**

**(10x3 =30)**

1. Name the parts of the conducting system of the heart.
2. What is meant by hypoxia? Mention two causes.
3. Draw a cross section of the spinal cord and label its parts.
4. List three functions of saliva
5. Mention two features of the right lung.
6. What is night blindness? Mention one cause
7. Mention three differences between small and large intestine.
8. Describe the structure of the cell membrane.
9. What is hypermetropia? How is it corrected?
10. List the constituents of plasma
11. What is meant by anemia? Mention one cause for the same.

\*\*\*\*\*

[LF 0212]

AUGUST 2014

Sub.Code :2201

**B.Sc. MEDICAL SOCIOLOGY  
FIRST YEAR  
PAPER I – ANATOMY AND PHYSIOLOGY  
Q.P. Code : 802201**

**Time: Three hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3x10 =30)**

1. Write in detail about the Cardiac Cycle.
2. Describe the blood supply of the brain in detail?
3. Write in detail about the lungs?

**II. Write Notes on:**

**(8x5 =40)**

1. Homeostasis.
2. Cardiac Cycle.
3. Trachea.
4. Parotid glands and its functions.
5. Proteins.
6. Blood groups.
7. White blood corpuscles.
8. Blood transfusions.

**III. Short Answers on:**

**(10x3 =30)**

1. What is pleura and what are all its functions?
2. What is immunity? Mention its types?
3. Nerve supply of the extra ocular muscles?
4. Define Diffusion and Osmosis?
5. Name the muscles of the respiration?
6. Define physiological dead space.
7. Define synapses.
8. What is Cerebrum? Mention its parts.
9. Write short notes on Pleura.
10. Define Cardiac output.

\*\*\*\*\*