

BASIC MEDICAL SCIENCES HSSC-I

Time Allowed: 2:30 Hours | **Total Marks:** 50

SECTION - A (Marks 10)

Instructions: Choose the correct answer for each part. Each part carries one mark.

1. **Which bone is commonly known as the "collar bone"?** A. Scapula | B. Clavicle | C. Sternum | D. Radius
 2. **The "Master Gland" of the endocrine system is the:** A. Thyroid | B. Adrenal | C. Pituitary | D. Pancreas
 3. **Insulin is produced by the:** A. Liver | B. Spleen | C. Gallbladder | D. Pancreas
 4. **The functional unit of the kidney is the:** A. Neuron | B. Nephron | C. Alveoli | D. Osteocyte
 5. **Which valve is located between the left atrium and left ventricle?** A. Tricuspid | B. Mitral (Bicuspid) | C. Pulmonary | D. Aortic
 6. **The fluid-filled sac that surrounds the heart is the:** A. Pleura | B. Peritoneum | C. Pericardium | D. Meninges
 7. **How many pairs of cranial nerves are there in the human body?** A. 10 | B. 12 | C. 31 | D. 8
 8. **The largest part of the human brain is the:** A. Cerebellum | B. Medulla Oblongata | C. Cerebrum | D. Thalamus
 9. **Which blood cells are primarily responsible for the immune response?** A. Erythrocytes | B. Leukocytes | C. Thrombocytes | D. Adipocytes
 10. **The exchange of gases in the respiratory system occurs in the:** A. Trachea | B. Bronchi | C. Alveoli | D. Larynx
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SECTION - B (Marks 26)

Instructions: Answer any **THIRTEEN** parts. Answers should be 2 to 4 lines.

1. Define **Homeostasis** and give one example.
2. Name the three layers of the heart wall from outer to inner.
3. List the parts of the **Large Intestine** in anatomical order.
4. What is the difference between an **Artery** and a **Vein**?
5. Name the hormones secreted by the **Thyroid Gland**.
6. Draw a labeled diagram of a **Typical Neuron**.
7. Define **Blood Pressure** and state the normal range for a healthy adult.
8. List the bones of the **Human Forearm**.
9. What are the functions of the **Spleen**?
10. Define **Synapse** and explain its importance.
11. Name the parts of the **Urinary Tract** in order.
12. Write a short note on the function of **Ribosomes** in a cell.

13. What is **Hemoglobin** and where is it found?
 14. Name the pigments found in **Bile Juice**.
 15. Define **Ovulation** and mention when it typically occurs in the cycle.
 16. Briefly describe the role of **Platelets** in blood clotting.
 17. What is the difference between **Tendon** and **Ligament**?
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SECTION - C (Marks 14)

Instructions: Attempt **ALL** questions. Each carries 7 marks.

Q. 3 Write a detailed note on the **Human Digestive System**, specifically focusing on the process of digestion in the stomach. **(OR)** Describe the **Systemic Circulation** of blood through the human body. Draw a flow chart if necessary.

Q. 4 Draw a labeled diagram of the **Human Eye**. Describe the functions of the Retina and Lens. **(OR)** Define **Hormone**. Write a detailed note on the functions of the **Adrenal Gland**, specifically discussing Adrenaline.