

B.Sc. MEDICAL LABORATORY TECHNOLOGY**FIRST YEAR****PAPER I – HUMAN BIOLOGY***Q.P. Code: 725001***Time: Three Hours****Maximum: 100 Marks****Answer all questions****I. Elaborate on:****(3 x 10 = 30)**

1. Draw a diagram of the heart and describe the cardiac cycle.
2. What are blood groups? Describe any two types of bloods groups you know.
Add a note on transfusion reactions.
3. Discuss in detail the process of urine formation.

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

1. What is haemopoiesis? List the steps involved in erythropoiesis.
2. Functions of liver.
3. Draw a section of the heart and write about valves.
4. Cushing's syndrome.
5. Anatomy of skin with suitable diagram.
6. Parts of female reproductive system.
7. Respiration and respiratory cycle.
8. Structure of a chromosome.

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

1. Ball and socket joint and give two examples.
2. Name the layers of the blood vessel.
3. Ventricles of brain.
4. Define allele and gene
5. Functions of mitochondria.
6. Parts of male genital system.
7. Types of bones.
8. Tidal volume.
9. Define ventilation and list the types of ventilation.
10. Write the major functions of the kidney.
