

[LJ 0816]

AUGUST 2016

Sub. Code: 5001

**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. What are blood groups? Describe any two types of bloods groups you know. Add a note on transfusion reactions.
2. Draw a neat labelled diagram of the heart. Describe the blood supply to the heart (Coronary circulation).
3. Name the hormones secreted by the pituitary gland. What are their functions?

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Explain about Juxtaglomerular apparatus.
2. Write in detail about white blood cells.
3. Explain about synovial joint.
4. What are bronchopulmonary segments? Explain.
5. Write about ESR – Erythrocyte sedimentation rate.
6. What are the physical changes that take place in males and females during puberty?
7. Write about medulla oblongata.
8. Explain about osmosis.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. What are the functions of pharynx?
2. Name the accessory muscles of respiration.
3. List the parts of nephron.
4. Explain about Tidal volume.
5. Write the various functions of liver.
6. Name the parts of small intestine.
7. What is gigantism?
8. Name the layers of the blood vessel.
9. What is neuromuscular junction?
10. Name the parts of brain.

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