

[LH 0815]

AUGUST 2015

Sub. Code: 1101

**B.Sc. OPERATION THEATRE AND ANAESTHESIA TECHNOLOGY/
CRITICAL CARE TECHNOLOGY**

FIRST YEAR

PAPER I – ANATOMY, PHYSIOLOGY AND BIOCHEMISTRY

Q.P. Code: 801101

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

I. Elaborate on:

(3 x 10 = 30)

1. Describe the external and internal features of the human lung.
2. List the coagulation factors and describe the blood coagulation pathways in detail.
3. Classify bones based on their shape and give examples.

II. Write notes on:

(8 x 5 = 40)

1. Describe mitosis.
2. Coronary circulation.
3. Describe the stages of fertilization.
4. Gross anatomy of the stomach.
5. Thyroid gland.
6. Acid base disorders.
7. Normal ECG.
8. Blood grouping.

III. Short Answers on:

(10 x 3 = 30)

1. Functions of mitochondria.
2. Role of bile.
3. Functions of platelets.
4. Functions of sodium in the body.
5. Name any 3 hormones secreted by anterior pituitary gland and write 2 functions for each.
6. Define coronal plane.
7. Name the parts of the small intestine.
8. Name the lobes of the cerebrum.
9. Name the salivary glands.
10. What are the criteria for the diagnosis of diabetes mellitus based on blood sugar levels?
