

**DIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY/
DIPLOMA IN CRITICAL CARE TECHNOLOGY**

FIRST YEAR

PAPER I – ANATOMY, PHYSIOLOGY AND BIOCHEMISTRY

Q.P. Code : 841101

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain Humerus with a) Presenting parts b) Muscle attachment
c) Side determination d) Applied anatomy and e) Blood supply
2. Write in detail about Cardiac Output and Factors influencing it.
3. Classify Proteins and write its functions in detail.

II. Write notes on:

(10 x 5 = 50)

1. Thoracic vertebrae.
2. Micturition.
3. Muscles of Thorax.
4. Functions of a) Cell membrane b) Mitochondria c) Golgi apparatus
5. Enzyme inhibition.
6. Functions of Blood.
7. Lung Volumes and Muscles of Inspiration.
8. Write briefly about a) Calcium b) Vitamin B12.
9. Hypertension.
10. Functions of Insulin and Glucagon and their disorders.

III. Short answers on:

(10 x 2 = 20)

1. Define Tachycardia and Bradycardia.
2. Anatomical planes.
3. ESR.
4. Respiratory quotient.
5. Depolarisation of Nerves.
6. Alkalosis.
7. Classify Nervous system.
8. Bleeding time and Clotting time.
9. Partial pressure of Carbon dioxide.
10. Define a) pH b) Buffers.