

**B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY  
FIRST YEAR  
PAPER I – ANATOMY AND PHYSIOLOGY**

*Q.P. Code: 801401*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe the external features, fissures and lobes of the lung with suitable diagram.
2. Describe in detail the synthesis and functions of thyroid hormones.
3. Define arterial blood pressure. Describe the nervous regulation of arterial blood pressure.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Describe the Structure of kidney.
2. Explain the Bronchopulmonary segments.
3. Explain the anatomy of Right coronary artery.
4. Discuss the Ligaments of liver.
5. Explain the waves of a Normal ECG.
6. Explain the stages of development of erythrocytes.
7. Enumerate the hormones secreted by anterior pituitary gland. Describe the actions of growth hormone.
8. Define Micturition and add a note on it.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Describe Thoracic part of trachea.
2. Functions of Mitochondria and Golgi Apparatus.
3. Write the features of Arch of Aorta.
4. Draw a typical intercostal space.
5. Explain the features of Trigone of urinary bladder.
6. Describe the terms : Pronation and supination.
7. Actions of Insulin.
8. Write the significance of erythrocyte sedimentation rate.
9. Define Glomerular filtration rate and write its normal value.
10. Explain the role of sweat glands in thermoregulation.