DIPLOMA IN CRITICAL CARE TECHNOLOGY SECOND YEAR

PAPER I – APPLIED ANATOMY AND PHYSIOLOGY

Q.P. Code: 841211

Time: Three Hours Maximum: 100 Marks

Answer All questions.

I. Elaborate on: $(3 \times 10 = 30)$

1. Define Cardiac cycle, explain the various stages of cardiac cycle.

- 2. Draw and label the diagram of Respiratory system and describe the Mechanism of Respiration.
- 3. Define Blood pressure. Explain the factors regulating blood pressure.

II. Write notes on: $(10 \times 5 = 50)$

- 1. Pain pathway.
- 2. Lung volumes and capacity.
- 3. Acid base balance.
- 4. Circle of Willis.
- 5. Chambers of the Heart.
- 6. Diaphragm.
- 7. ABO blood grouping.
- 8. Bronchopulmonary segments.
- 9. Electrocardiogram.
- 10. Erythropoiesis.

III. Short answers on: $(10 \times 2 = 20)$

- 1. Define Alkalosis.
- 2. Name the parts of brain stem.
- 3. Name the layers of the blood vessel.
- 4. Hypoxia.
- 5. Valves of the Heart.
- 6. Cough reflex.
- 7. Hemothorax.
- 8. Lobes of the liver.
- 9. Name the bones forming thoracic cage.
- 10. Pacemaker of the heart.