

[LM 0218]

FEBRUARY 2018

Sub. Code: 1211

**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 x 10 = 30)

1. Describe the larynx under the following headings:
i) Extent ii) Cartilages iii) Muscles iv) Vocal cord
v) Applied Anatomy
2. Describe in detail the mechanism of transport of O₂ in the blood.
3. Define Blood pressure. Explain how blood pressure is regulated? Add a note on Hypertension.

II. Write notes on:

(10 x 5 = 50)

1. Intercostal muscles.
2. Mediastinal surface of Right and Left lung.
3. Pleural recess.
4. Bronchopulmonary segments.
5. Transverse pericardial sinus.
6. Circle of Willis.
7. Draw a diagram of lead-II ECG and Explain.
8. Phases of Cardiac Cycle.
9. Arterial Cannulation.
10. Types of Respiratory failure.

III. Short answers on:

(10 x 2 = 20)

1. Lateral wall of nose.
2. Typical rib.
3. Define the normal Anatomical position.
4. Typical intercostals nerve.
5. Costodiaphragmatic recess.
6. Special features of Coronary circulation.
7. Muscle of Inspiration.
8. Surfactant.
9. Frank Starling Law.
10. Define Residual Volume.
