

[LJ 0816]

AUGUST 2016

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. Write in detail about the blood supply of heart with suitable diagrams.
2. Describe Larynx under the following headings.  
a) Extent b) Cartilages c) Parts d) Nerve supply.
3. Define Blood Pressure. Mention the factors that help in its regulation.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Pain pathway.
2. Pleura and pleural recesses.
3. Right and left ventricle.
4. Pulmonary Function Test.
5. Clotting cascade.
6. Origin and conduction of electrical impulses in heart.
7. Principle muscles of respiration.
8. Circle of Willis.
9. Lung volumes and capacities.
10. Erythropoiesis.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Give the normal values of haemoglobin in adult and new born.
2. Name any four cranial nerves.
3. Name any two hazards of mismatched blood transfusion.
4. Name the valves of the heart.
5. Define alkalosis.
6. Which is the pacemaker of heart? Where is it located?
7. Mention the boundaries of transverse sinus of heart.
8. What is prothrombin time?
9. Name the parts of brainstem.
10. Name the hormones secreted by pituitary gland.

\*\*\*\*\*