

DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY
FIRST YEAR
PAPER I – ANATOMY AND PHYSIOLOGY, BIOCHEMISTRY

Q.P. Code: 842601

Time : Three Hours

Maximum : 100 Marks

Answer All questions.

I. Elaborate on: **(3 x 10 = 30)**

1. List out the Muscles of the Thorax. Give details of Accessory Muscles of Respiration.
2. Explain the composition of blood. Add a note on blood group and coagulation of blood.
3. Name fat soluble vitamins. Write in detail about sources, RDA, biochemical functions and deficiency manifestation of vitamin D.

II. Write notes on: **(10 x 5 = 50)**

1. Anatomical description of Sacrum.
2. Protein Energy Malnutrition.
3. Origin and Conduction of Electrical Impulses of the Heart.
4. Functions of Hemoglobin.
5. Classify proteins.
6. Explain the parts of brain with suitable diagram.
7. Classification of lipids with examples.
8. Explain the thyroid gland with its secretions and functions.
9. Parts of the brain.
10. Explain the muscles associated with upper limb.

III. Short answers on: **(10 x 2 = 20)**

1. Essential Amino acids.
2. Isoenzymes.
3. What is Respiratory quotient?
4. What is Acidosis?
5. Tidal volume.
6. Define Blood pressure.
7. Disorders of insulin secretion.
8. Cranial Nerves supplying the Eyes.
9. Role of Oxytocin.
10. Functions of Mitochondria.
