

**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. Describe central nervous system. Explain in detail about cranial nerves.
2. Classify Carbohydrates. Write in detail about monosaccharide and disaccharides.
3. Classify bones. Write in detail about upper limb bones.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Describe the structure of kidney.
2. Histology of liver.
3. Explain about polysaccharide.
4. Explain about CSF.
5. What is blood? Explain the functions of blood.
6. Explain about polysaccharide.
7. Explain about cardiac cycle.
8. Describe the Henderson-Hasselbalch equation.
9. Explain about pituitary gland and its hormones.
10. Explain the organelles of cytoplasm.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Give examples for synovial joints.
2. Define Malnutrition.
3. What are muscle proteins?
4. Functions of Liver?
5. Addison's disease.
6. What are the parts of pharynx?
7. Functions of the skeletal system.
8. Enumerate the cells present in pancreas.
9. Define physiology?
10. What is blood brain barrier?

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