

**B.Sc. NEURO ELECTRO PHYSIOLOGY**  
**FIRST YEAR**  
**PAPER II – PHYSIOLOGY AND BIOCHEMISTRY**

*Q.P. Code: 802502*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Define synapse. Explain in detail about the synaptic transmission. Add a note on neurotransmitters involved in transmission.
2. Define erythropoiesis? Explain in detail about the stages and factors regulating it?
3. Classify lipids and describe the functions of various lipid molecules in our body.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Neuromuscular junction.
2. Functions of Thyroxine.
3. Hormonal changes in menstrual cycle.
4. Oxygen dissociation Curve.
5. Factors affecting cardiac output.
6. Taste pathway.
7. Write briefly on the functions of calcium and phosphorus.
8. Explain the process of detoxification of ammonia in our body.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. What is haemophilia? What is the cause for it?
2. Rigor mortis.
3. Enzymes in pancreatic juice.
4. Stroke volume.
5. What is surfactant?
6. Types of jaundice.
7. Three steps involved in formation of urine.
8. Hormones which rise blood sugar level?
9. How are amino acids classified?
10. Write three functions of sodium.

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