

**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. Write in detail about mechanism of hearing.
2. Explain the various mechanisms of body responsible for acid base balance. Add a note on metabolic acidosis.
3. Explain cardiac cycle. Write a note on normal pattern of E.C.G.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Draw the structure and explain the functions of skin.
2. Classify enzymes with examples.
3. Explain how blood pressure is regulated?
4. Isoenzymes – definition and types.
5. Composition and functions of bile.
6. Classify aminoacids based on their structure.
7. Micturition reflex – explain.
8. Menstrual cycle – explain diagrammatically.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Neurotransmitters.
2. Write normal composition of urine.
3. Explain the structure of neuron.
4. Handerson – Hasselbach equation.
5. Hyperparathyroidism- types and presentation.
6. Mastication – physiology.
7. Basal metabolic rate.
8. Surfactants – composition and function.
9. Diet in diabetes mellitus.
10. Anticoagulants.

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