

**FIRST B.N.Y.S. DEGREE EXAMINATION**

**PAPER IV – HUMAN PHYSIOLOGY - II**

*Q.P. Code : 821506*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Essay Questions:**

**(2 x 15 = 30)**

1. List the various changes taking place during muscular contraction. Write the properties of nerve fibres.
2. Describe the synthesis, storage, functions and regulation of secretion of thyroid hormone.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Define Accommodation. Write detail about accommodation reflex and its Pathway.
2. Write detail about course of the visual pathway.
3. Functions of testosterone in adult life.
4. Define ovulation. Process and hormonal regulation of ovulation.
5. Physiology of lactation.
6. Write in detail about actions of calcitonin and regulation of calcitonin secretion.
7. Write detail about development of corpus luteum, functions and fate of corpus luteum.
8. Theories of hearing.
9. Brown-Sequard Syndrome.
10. Write in detail about the functions of oxytocin.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Babinski sign.
2. Benefits of pain sensation.
3. Audiometry.
4. Dichromatism.
5. Infertility.
6. Oligozoospermia.
7. Osteoporosis.
8. Functions of rods and cons.
9. Optic chiasm.
10. Composition of semen.