

FEBRUARY 2005

[KM 1506]

Sub. Code : 1506

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

First Year

Part II

Paper IV — HUMAN PHYSIOLOGY — II

Time : Three hours

Maximum : 100 marks

**Sec. A & B : Two hours and
forty minutes**

Sec. A & B : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

SECTION A — (2 × 15 = 30 marks)

1. Name all ascending tracts. Describe spinothalamic tract.
2. Describe endometrial changes occurring during menstrual cycle. Add a note on hormonal regulation of menstrual cycle.

SECTION B — (10 × 5 = 50 marks)

3. Describe visual pathway with help of a neat diagram.
4. Write briefly the differences between upper and lower motor neurons lesions.
5. What are hormones? Describe their mechanism of action.
6. Describe the sequence of events occurring during contraction of skeletal muscle.
7. Functions of cerebellum.
8. Brown sequard syndrome.
9. Isometric and isotonic contraction.
10. Classify synapse. Write the properties of synapse.
11. Non-REM sleep.
12. Describe chemistry, synthesis and functions of antidiuretic hormone.

AUGUST 2005

[KN 1506]

Sub. Code : 1506

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

First Year

Part II

Paper IV — HUMAN PHYSIOLOGY — II

Time : Three hours

Maximum : 100 marks

Theory : Two hours and

Theory : 80 marks

forty minutes

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay : (2 × 15 = 30)

1. Describe origin, course and termination of pyramidal tract. Add notes on hemiplegia.

2. Describe the chemistry, source, synthesis and functions of thyroid hormones. Add notes on DYSFUNCTION of Thyroid hormone.

II. Short notes on : (10 × 5 = 50)

1. Colour vision

2. Auditory pathway

3. Give the action of oestrogen

4. Ovulation

5. Spermatogenesis

6. Name all hormones of anterior pituitary. Describe action of any one of them.

7. Functions of basal ganglia.

8. Define action potential. Explain action potential in nerve fibre with the help of a diagram.

9. EEG (Electro Encephalo Gram)

10. Describe briefly on tests of hearing.

FEBRUARY 2006

[KO 1506]

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B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

First Year

Part II

Paper IV – HUMAN PHYSIOLOGY – II

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay : (2 × 15 = 30)

1. Trace the ascending pathway for pain. Add a note on "Referred pain" with examples. (12 + 3)

2. Describe the endometrial changes occurring during menstrual cycle. Add a note on hormonal regulation of menstrual cycle. (10 + 5)

II. Write short notes on : (10 × 5 = 50)

1. Name the hormones of thyroid gland. Describe the synthesis of thyroid hormone.

2. Name the two divisions of autonomic nervous system. Mention the effect of these on eye, heart and urinary bladder.

3. Name the testicular androgens. Briefly explain the stages of spermatogenesis.

4. Name the auditory ossicles. Explain the role of middle ear in mechanism of hearing.

5. Explain the transmission of impulses across a neuromuscular junction.

6. Name all the hormones of anterior pituitary. Describe the action of any one of them.

7. Define action potential. Explain action potential in a nerve fiber with a help of a diagram.

8. Draw and describe the different types of EEG waves.

9. What is Brown-Sequard syndrome? Explain the features of this syndrome.

10. Name the errors of refraction. Explain the method of correction of these errors.

AUGUST 2006

[KP 1506]

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B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

First Year

Part II

Paper IV — HUMAN PHYSIOLOGY — II

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay :

1. (a) Menstrual cycle – Describe the endometrial changes occurring during this cycle. (10 + 10)

(b) Mention Hormonal regulation of the menstrual cycle and ovulation.

2. Write about the cerebrospinal fluid, its formation, properties, composition and circulation? (15)

3. Explain about the Hypothyroidism in adult and children. (15)

II. Write short notes on :

(6 × 5 = 30)

1. Define Cushing's syndrome and mention the signs and symptoms.

2. Endocrine functions of testis.

3. Write about the composition of semen.

4. Explain about the types of muscles.

5. Explain the neuromuscular junction.

6. Functions of Hypothalamus.

AUGUST 2007

[KR 1506]

Sub. Code : 1506

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

First Year

Part II

Paper IV — HUMAN PHYSIOLOGY — II

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay : (2 × 15 = 30)

1. Describe the connections and functions of Basal ganglia. Add a note on its clinical disorders.

2. Enumerate the hormones of pancreas. Explain the actions of Insulin. Add a note on diabetes Mellitus and its treatment.

II. Short notes on : (10 × 5 = 50)

1. Mention the refractive errors of the eye. How Myopia is corrected?

2. Draw a diagram to show the taste pathway.

3. Explain the functions of middle ear.

4. Name three features of Cushing's syndrome. Explain their basis.

5. Compare and contrast the clinical features of upper Motor and Lower Motor neuron lesions.

6. Immunological test for pregnancy.

7. Functions and Hormones secreted by placenta.

8. Refractory period.

9. Draw the diagram of a strength duration curve and describe chronaxie and rheobase.

10. Acromegaly and Gigantism.

FEBRUARY 2008

[KS 1506]

Sub. Code : 1506

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

First Year

Part II

Paper IV — HUMAN PHYSIOLOGY — II

Q.P. Code : 821506

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay : (2 × 15 = 30)

1. (a) Classify muscles.
(b) Draw a diagram of neuromuscular junction.
(c) Describe neuromuscular transmission.
(5 + 5 + 5 = 15)
2. (a) List the hormones of anterior pituitary.
(b) Explain the actions and functions of any three hormones.
(c) Discuss the effect of hyper secretion by anterior pituitary.
(4 + 6 + 5 = 15)

II. Short notes : (10 × 5 = 50)

1. Functions of rods and cones.
2. Brown Sequard syndrome.
3. Composition of semen.
4. Secretion and mode of action adrenaline and noradrenaline.
5. Methods of contraception in female.
6. Organ of Corti.
7. Types of touch and its conduct.
8. Perimetry.
9. Blood Ca^{2+} level = 9 mg/dl. What is the condition? Explain.
10. Sectioning corpus callosum - abnormalities.

August 2008

[KT 1506]

Sub. Code : 1506

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

First Year

Part II

Paper IV — HUMAN PHYSIOLOGY — II

Q.P. Code : 821506

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 15 = 30)

1. Trace the path way of cortico spinal tract. Mention in a tabular form the difference between upper motor neuron lesion and lower motor neuron lesion.

2. Mention the different types of smooth muscle. Discuss their difference in structure, functions and energetics when compared to that of a skeletal muscles.

August 2008

II. Short answers : (10 × 5 = 50)

1. Thalamus and its functions.
2. Parkinsonism.
3. Myasthenia gravis.
4. Tests to detect ovulation.
5. Composition of CSF and their functions.
6. Functions of aqueous humour.
7. Difference between the actions of adrenaline and nor adrenaline.
8. Taste buds.
9. Myxoedema.
10. Endometrial cycle.

III. Write short answers : (10 × 2 = 20)

1. Exophthalmos.
2. Broca's area.
3. Blind spot.
4. Tinnitus.

5. Hormones produced by the placenta.

6. Turner's syndrome.

7. Composition of semen.

8. Babinski's sign.

9. Synapse.

10. Define Reflex.

FEBRUARY - 2009

[KU 1506]

Sub. Code : 1506

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

First Year

Part II

Paper IV — HUMAN PHYSIOLOGY – II

Q. P. Code : 821506

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 15 = 30)

1. Give an account of the hormones of the adrenal cortex, their site of production and the regulation of their secretion.

2. Detail note on functional anatomy of eye.

Add a note on :

(a) Accomodation and adaption.

(b) Refractory errors of eye.

II. Short notes : (10 × 5 = 50)

1. Functions of Hypothalamus.
2. Mechanism of action of hormones on target cells.
3. Sliding theory.
4. Menstrual cycle.
5. Vestibular apparatus.
6. Reflexes.
7. Sex determination.
8. Functional anatomy and functions of cerebellum.
9. Oogenesis.
10. Neuro muscular junction.

III. Short answers : (10 × 2 = 20)

1. Kline felter's syndrome.
2. Grand mal.
3. Abnormalities of olfactory sensation.
4. Somnambulism.
5. Corpus luteum.

6. Amacrine cells.

7. Neuroglia.

8. Cataract.

9. Tabes dorsalis.

10. Structures of Brain Stem.

August - 2009

[KV 1506]

Sub. Code : 1506

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

First Year

Part II

Paper IV — HUMAN PHYSIOLOGY — II

Q.P. Code : 821506

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

- I. Long Essay : (2 × 15 = 30)
1. (a) Physiology of Olfaction.
(b) Olfactory pathway and defects of olfaction.
(5 + 10 = 15)
2. (a) Pyramidal Tract.
(b) Upper and lower motor neurons and their lesion.
(7 + 8 = 15)

August - 2009

II. Short notes : (10 × 5 = 50)

1. Argyll Robertson Pupil.
2. Mechanism of Hearing.
3. Anterior spinal thalamic tract.
4. Electroencephalogram. (EEG).
5. Composition of semen.
6. Spermatogenesis.
7. Parathyroid hormones and its action.
8. Regulation of body temperature.
9. Estrogen.
10. Process of degeneration of Nerve fiber.

III. Write short answers : (10 × 2 = 20)

1. Saltatory conduction.
2. Functions of rods and cones.
3. Lumbar puncture.

4. Reflexes.
 5. Pyrexia.
 6. Synapse.
 7. Puberty and changes during puberty.
 8. Cushing's syndrome.
 9. Functions of limbic system.
 10. Osteoblastic and Osteoclastic activity of bone.
-

February 2010

[KW 1506]

Sub. Code: 1506

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

First Year

Part II

Paper IV – HUMAN ANATOMY - II

Q.P. Code : 821506

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay :

(2 x 15 = 30)

1. Menstrual cycle, its regulation and hormonal changes during menstrual cycle.
2. Thyroid hormones, normal values, functions and its clinical features.

II. Short Notes:

(10 x 5 = 50)

1. Lactation and its process.
2. Pro insulin.
3. Myasthenia gravis.
4. Synapse and its classification and function.
5. Formation, circulation and function of CSF.
6. Pain pathway and physiology of pain.
7. Colour blindness and tests for colour blindness.
8. Auditory pathway.
9. Syringomyelitis.
10. Hormones of adrenal cortex.

III. Short Answers:

(10 x 2 = 20)

1. Hormones and its classification.
 2. Ovulation.
 3. Refractory period.
 4. Neuroglia cells.
 5. Optic disc.
 6. Weber's test.
 7. Reflex arc.
 8. Importance of myelin sheath.
 9. Safe period.
 10. Physiological function of middle ear.
-

August 2010

[KX 1506]

Sub. Code: 1506

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

First Year

Part II

Paper IV – HUMAN PHYSIOLOGY - II

Q.P. Code : 821506

Time : Three hours

Maximum : 100 marks

Draw neat diagram wherever necessary.

Answer ALL questions.

I. Essay Questions:

(2 x 15 = 30)

1. Explain in detail the physiology of lactation.
2. Explain the formation, circulation, methods of collection and clinical significance of CSF?

II. Short Notes:

(10 x 5 = 50)

1. Adrenal cortex.
2. Corpus luteum.
3. Classification of nerve fibres.
4. Brown sequard syndrome.
5. Regulation of body temperature.
6. Tests for conduction defects.
7. Visual pathway.
8. Vestibular apparatus.
9. Neuro-muscular junction.
10. Spino-thalamic tract.

III. Short Answers:

(10 x 2 = 20)

1. What is Glaucoma?
 2. Define Aphasia.
 3. What is Cochlea?
 4. What is Anosmia?
 5. Audiometry.
 6. What is Syringomyelia?
 7. Define Axonotomosis.
 8. Islets of Langerhans.
 9. Clonus.
 10. 'Fright and Flight reflex'.
-

February 2011

[KY 1506]

Sub. Code : 1506

B.N.Y.S. DEGREE EXAMINATION.

(New Regulations)

First Year

Part II

Paper IV — HUMAN PHYSIOLOGY — II

Q.P. Code : 821506

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Essay Questions : (2 × 15 = 30)

1. Describe the hypothalamic regulation of food intake.
2. Describe the endogenous pain relief system.

II. Short notes : (10 × 5 = 50)

1. Describe the endocrine functions of testis.
2. Describe how hormones maintain blood glucose level.
3. Describe foetoplacental unit.
4. Difference between REM and NREM sleep.
5. Give the neural circuit for “inverse-stretch reflex”. Explain its importance.
6. Draw a dark-adaptation curve. Explain the cause of its configuration.
7. Explain the “travelling wave” theory of hearing.
8. Draw a diagram of olfactory pathway. Give the significance of this sensations.
9. Define ovulation. List the indicators of ovulation.
10. Sliding filament theory of muscle contraction.

III. Short answers : (10 × 2 = 20)

1. Functions of sertoli cells.
2. How much is intra-ocular tension? What is its significance?
3. Define “Chronaxia” of an excitable cell. What is its significance?

4. What are the functions of middle ear?
 5. What is Addison's disease? Give two features.
 6. Thalamic syndrome.
 7. Accommodation reflex.
 8. What is stereognosis? Which part of the brain is responsible for it?
 9. Immunological pregnancy test.
 10. Impedance matching.
-

August 2011

[KZ 1506]

Sub. Code: 1506

**B.N.Y.S. DEGREE EXAMINATION.
First Year (Part II)
Paper IV – HUMAN PHYSIOLOGY II
Q.P. Code : 821506**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Essay questions:

(2X15=30)

1. Enumerate the properties of muscles and gives an account of contractile property of the skeletal muscle.
2. What are the various lobes of cerebral cortex? Describe their functions. Add a note on frontal lobe syndrome.

II. Short Notes:

(10X5=50)

1. Milk ejection reflex.
2. Regulation of blood sugar level.
3. Uterine changes during menstrual cycle.
4. Olfactory path way.
5. Taste buds.
6. Reflex arc.
7. Lower motor neuron lesion.
8. Physiology of sleep.
9. Pain gate control theory.
10. Parkinson's disease.

III. Short Answer:

(10X2=20)

1. Vivilism.
2. Cretinism.
3. Presbyopia.
4. Blind spot.
5. Baninski sign.
6. Sarcomere.
7. Gigantism.
8. Cataract.
9. Auditory ossicles.
10. Aqueous Humor.

February 2012

[LA 1506]

Sub. Code: 1506

**B.N.Y.S. DEGREE EXAMINATION.
First Year-Part II
Paper IV- HUMAN PHYSIOLOGY-II
Q.P. Code: 821506**

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on: (2x15=30)

1. List the various changes taking place during muscular contraction and explain the molecular basis of contractions.
2. What is menstrual cycle? Describe the changes taking place during menstrual cycle.

II. Write notes on: (10x5=50)

1. Sliding theory of muscular contraction
2. Auditory pathway
3. Cushing's Syndrome
4. Functions of Thalamus
5. Milk ejection reflex
6. Electrical changes during smooth muscle contraction
7. Errors of refraction
8. Functions of Thyroid hormone
9. Pyramidal tracts
10. Spermatogenesis

III. Short Answers (10x2=20)

1. Cryptorchidism
2. Substance P
3. Cell attached patch
4. Accommodation reflex
5. Acromicria
6. Human Chroionic Gonadotropin
7. Babinski's sign
8. Free load
9. Aguesia
10. Trousseau's sign

[LB 1506]

Sub. Code: 1506

FIRST YEAR B.N.Y.S. DEGREE EXAM – AUGUST 2012

Paper – IV HUMAN PHYSIOLOGY – II

Q.P. Code: 821506

Time: 180 Minutes

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

**Pages Time Marks
(Max.)(Max.)(Max.)**

- | | | | |
|---|----|----|----|
| 1. Describe the synthesis, storage, release, transport functions and regulation of secretion of thyroid hormones. | 16 | 25 | 15 |
| 2. Explain the different parts of cerebellum. Enumerate the functions of cerebellum write a note on cerebellar lesions. | 16 | 25 | 15 |

II. Short notes on:

- | | | | |
|---|---|---|---|
| 1. Accommodation reflex. | 3 | 8 | 5 |
| 2. Mechanism of hearing. | 3 | 8 | 5 |
| 3. Properties of smooth muscle. | 3 | 8 | 5 |
| 4. Functions of hypothalamus. | 3 | 8 | 5 |
| 5. Process of ovulation. | 3 | 8 | 5 |
| 6. Upper motor neuron lesion. | 3 | 8 | 5 |
| 7. Note on basal ganglia. | 3 | 8 | 5 |
| 8. Synapse. | 3 | 8 | 5 |
| 9. Explain reflex arc and the properties of reflexes. | 3 | 8 | 5 |
| 10. Endocrine functions of pancreas. | 3 | 8 | 5 |

III. Short Answers on:

- | | | | |
|--------------------------|---|---|---|
| 1. Motion sickness. | 1 | 5 | 2 |
| 2. Referred pain. | 1 | 5 | 2 |
| 3. Spike potential. | 1 | 5 | 2 |
| 4. Myasthenia gravis. | 1 | 5 | 2 |
| 5. Myxedema. | 1 | 5 | 2 |
| 6. Sertoli cells. | 1 | 5 | 2 |
| 7. Stretch reflex. | 1 | 5 | 2 |
| 8. Composition of semen. | 1 | 5 | 2 |
| 9. Vitreous humor. | 1 | 5 | 2 |
| 10. Optic Chiasma. | 1 | 5 | 2 |

[LC 1506]

SUB. CODE : 1506

FIRST YEAR B.N.Y.S DEGREE EXAM - FEBRUARY 2013

PAPER – IV : HUMAN PHYSIOLOGY – II

Q. P. CODE: 821506

Time: 3 hours:

Maximum: 100 Marks

ANSWER ALL QUESTIONS

I.Essay Questions:

(2x15=30)

1. Describe Pyramidal tracts. Write about upper and lower motor lesions
2. Classify Hormones. Explain the regulation of hormone secretion and mechanism.

II.Short Notes:

(10x5=50)

1. Explain physiology of lactation
2. Explain the formation, composition and functions of CSF
3. Explain the role of vestibular apparatus in maintenance of equilibrium
4. Explain light reflex, its types and pathways
5. Define synapse. Explain its types and functions
6. Explain the functions of limbic system
7. Define visual acuity and write the tests for it
8. Explain the mechanism of hearing
9. Write the functions of ovary and ovarian hormone
10. Define accommodation and write the mechanism of accommodation.

III.Short Answers:

(10x2=20)

1. Explain Lumbar puncture
2. Explain Starling's law
3. Explain tract of Goll and Burdach
4. Explain reflex arc
5. Write the types of neurotransmitters
6. Name the different stages of spermatogenesis
7. Explain stretch reflex
8. Explain Nystagmus
9. Explain Phototransduction
10. Explain Hering's theory of opposite colours

[LD 1506]

SUB. CODE : 1506

FIRST YEAR B.N.Y.S DEGREE EXAM - AUGUST 2013

PAPER – IV : HUMAN PHYSIOLOGY – II

Q. P. CODE: 821506

Time: 3 hours:

Maximum: 100 Marks

ANSWER ALL QUESTIONS

I.Essay Questions:

(2x15=30)

1. Draw and explain visual pathway. Explain the effects of lesions at different levels of optic pathway
2. Explain Hypothalamo – hypophyseal system. Add a note on the hormones secreted by the pituitary.

II.Short Notes:

(10x5=50)

1. Explain the tests for hearing
2. Explain the regulation of blood calcium level
3. Write a note on laboratory diagnosis of the endocrine glands
4. Explain types of muscle and their properties
5. Explain neuro-muscular transmission.
6. Explain functions of Thalamus
7. Explain physiology of sleep
8. Explain the stages of parturition and add a note on role of hormones in parturition
9. Write the composition and functions of CSF
10. Explain the pathway for accommodation reflex.

III.Short Answers:

(10x2=20)

1. Explain actomyosin complex
2. Explain refractory period
3. Explain myasthenia gravis
4. Write the composition of semen
5. Enumerate the types of synapses
6. What is antidiuretic hormone
7. Classify receptors
8. Explain pupillary reflex
9. Explain sarcomere
10. What is fetoplacental unit

FIRST YEAR B.N.Y.S. DEGREE EXAM

PAPER IV – HUMAN PHYSIOLOGY-II

Q.P. Code : 821506

Time: Three hours

Maximum : 100 Marks

Answer All questions

I. Essays Questions: (2X15=30)

1. What are the hormones of thyroid hormones. Explain the process of synthesis and function and add a note on its dysfunction
2. Write an essay on ascending pathways and its function

II. Short Notes: (10X5=50)

1. Short note on cerebrospinal fluid
2. Short note on neuro-muscular junction.
3. Explain in brief about the reflex arc and its components.
4. Explain the function of parathormone
5. What are the important actions of glucagon?
6. Explain the Ventral spinocerebellar tract.
7. Write the process of ovulation
8. Write short notes of sex differentiation and determination
9. Write short notes on hearing mechanism
10. Write a short note on sleep.

III. Short Answers: (10X2=20)

1. What is nystagmus?
2. What is stretch reflex?
3. What is presbyopia?
4. What is sarcotubular system?
5. Name four neuro-transmitters
6. What are the hormones secreted by ovaries?
7. Name the layers of adrenal cortex
8. Name the types of neurons
9. Explain all or none law
10. Explain main functions of oxytocin

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. Enumerate the various changes during Muscular Contraction. Explain the Molecular basis of contraction.
2. Describe the action and regulation of Growth Hormone.

II. Short Notes:

(10 X 5 = 50)

1. Lactation.
2. Physiology of Sleep.
3. Accomodation.
4. Regulation of Blood Sugar level.
5. Functions of Hypothalamus.
6. Layers of Retina.
7. Corpus Luteum.
8. Taste buds.
9. Acetylcholine.
10. Gametogenic functions of testis.

III. Short Answers:

(10 X 2 = 20)

1. Vasectomy.
2. Anosmia.
3. Papez Circuit.
4. Cells of Claudis.
5. Myosin.
6. Motion Sickness.
7. Babinski Sign.
8. Sertoli Cells.
9. Astigmatism.
10. Absolute refractory period.

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. Name the hormones of pituitary gland and explain in detail on the secretion of anterior pituitary.
2. Write an essay on cerebellum and its functions. Add a note on cerebellar disorders.

II. Write Notes on:

(10 x 5 = 50)

1. Short note on functions of basal ganglia.
2. Outline the taste pathways
3. Write a note on functions of adrenal cortex
4. Note on regulation of body temperature
5. Short note on functions of hypothalamus
6. Short note on mechanism of skeletal muscle contraction
7. Role of insulin in regulation of blood glucose
8. Note on spermatogenesis
9. Note on synthesis of thyroid hormone
10. Short note on vestibular apparatus

III. Short Answers on:

(10 x 2 = 20)

1. Define the term menopause
2. What is fovea?
3. What are the types of synapse?
4. Define hormones of adrenal medulla
5. Name the muscle proteins
6. What is anosmia?
7. What are the types of pain?
8. What is sarcomere?
9. What is blind spot?
10. Define receptor

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 in the same order

I. Essay Questions:

(2 x 15 = 30)

1. Define Menstrual Cycle. Explain the Ovarian changes during the Menstrual cycle.
2. Explain the functions and regulation of Thyroid Hormone.

II. Short notes on:

(10 x 5 = 50)

1. Visual Pathway.
2. Cerebrospinal Fluid.
3. Neuromuscular Junction.
4. Errors of Refraction.
5. Fatigue.
6. Extra Pyramidal Tract.
7. Physiology of Sleep.
8. Excitation Contraction Coupling.
9. Functions of Inner Ear.
10. Functions of Thalamus.

III. Short Answers on:

(10 x 2 = 20)

1. Brown Sequard Syndrome.
2. Cryptorchidism.
3. Sarcolemma.
4. Filiform Papillae.
5. Virilism.
6. Spike Potential.
7. Properties of Semen.
8. Gigantism.
9. Protanopia.
10. Reflex Arc.
