

[LA 0412]

Sub. Code: 1103

**M.Sc PHYSIOLOGY DEGREE EXAMINATIONS**  
**Candidates admitted from 2008-2009**  
**PAPER III – NEUROPHYSIOLOGY, ENDOCRINE AND**  
**REPRODUCTIVE SYSTEM**

*Q.P. Code : 281103*

**Time : Three hours**

**Maximum :100marks**

**Answer all questions.**

**I. Elaborate on :**

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

- |   |    |    |    |
|---|----|----|----|
| 1. What does basal ganglia consists of? What are its connections and functions? Add a note on Parkinsonism and Huntington's disease?  | 17 | 40 | 20 |
| 2. Name the hormones of thyroid gland? Elaborate the steps involved in formation of thyroid hormones and how are they regulated. Add a note on its hyosecretion and hypersecretion. | 17 | 40 | 20 |

**II. Write notes on :**

- |  |   |    |   |
|--|---|----|---|
| 1. Name the neuroglial cells and its functions.    | 4 | 10 | 6 |
| 2. Hormones of placenta.                           | 4 | 10 | 6 |
| 3. Trace the auditory pathway.                     | 4 | 10 | 6 |
| 4. Diabetes mellitus- its causes and types         | 4 | 10 | 6 |
| 5. Cerebrospinal fluid-its formation and functions | 4 | 10 | 6 |
| 6. Mechanism of action of endocrine hormones       | 4 | 10 | 6 |
| 7. Synapse and its properties                      | 4 | 10 | 6 |
| 8. Spermatogenesis                                 | 4 | 10 | 6 |
| 9. Endocrine functions of kidney                   | 4 | 10 | 6 |
| 10. Pregnancy tests.                               | 4 | 10 | 6 |

\*\*\*\*\*

[LB 1012]

OCTOBER 2012

Sub. Code: 1103

**M.Sc PHYSIOLOGY DEGREE EXAMINATION**  
**(For candidates admitted from 2008-2009 regulations)**  
**PAPER III – NEUROPHYSIOLOGY, ENDOCRINE AND**  
**REPRODUCTIVE SYSTEM**

*Q.P. Code : 281103*

**Time : 3 hours**  
**(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

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

- |   |    |    |    |
|---|----|----|----|
| 1. Stages and various theories of sleep. Add a note on various sleep disorders and available investigations for them. | 17 | 40 | 20 |
| 2. Menstrual cycle and various hormones regulating it.  | 17 | 40 | 20 |

**II. Write Notes on :**

- |  |   |    |   |
|--|---|----|---|
| 1. Analgesic system of brain and spinal cord.                                | 4 | 10 | 6 |
| 2. Referred pain.  | 4 | 10 | 6 |
| 3. Brown-sequard syndrome.   | 4 | 10 | 6 |
| 4. Eye movements and their control.  | 4 | 10 | 6 |
| 5. Taste pathway.  | 4 | 10 | 6 |
| 6. Regulation of Na ion in the ECF.  | 4 | 10 | 6 |
| 7. Stress response of sympathetic nervous system.                            | 4 | 10 | 6 |
| 8. Molecular mechanism of action of hormones.                                | 4 | 10 | 6 |
| 9. Temporary and permanent methods of contraception in both male and female. | 4 | 10 | 6 |
| 10. Lactation.   | 4 | 10 | 6 |

\*\*\*\*\*

[LD 1013]

**OCTOBER 2013**  
**M.Sc PHYSIOLOGY DEGREE EXAM**  
**(2008-2009 batch onwards)**  
**FINAL YEAR**

**Sub.Code :1103**

**PAPER III – NEUROPHYSIOLOGY, ENDOCRINE AND REPRODUCTIVE  
SYSTEM**

**Q.P. Code: 281103**

**Time: Three hours**

**Maximum : 100 Marks**

**Answer All questions**

**I Elaborate on:**

**(2x20 =40)**

1. Explain the Physiology of growth.
2. How are nerve fibres classified and describe the Pain pathway to brain.

**II. Write Short notes on:**

**(10 x 6 = 60)**

1. Vitamin D
2. Physiological basis of memory
3. IPSP and EPSP
4. Ageing
5. Decerebrate rigidity
6. Circadian rhythm
7. Muscle spindle
8. Turner syndrome
9. Stretch reflex
10. Brown sequard syndrome

\*\*\*\*\*