

M.Sc. PHYSIOLOGY DEGREE EXAMINATION**(For Candidates admitted from 2008-2009 regulations)****PAPER III – NEUROPHYSIOLOGY, ENDOCRINE AND REPRODUCTIVE SYSTEM***Q.P. Code: 281103***Time : Three Hours****Maximum : 100 marks****Answer ALL questions****I. Elaborate on:**

Pages (Max.)	Time (Max.)	Marks (Max.)
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|--|----|---------|----|
| 1. What does basal ganglia consists of? What are its connections and functions? Add a note on Parkinsonism and Huntington's disease? | 17 | 40 min. | 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 hyposecretion and hypersecretion. | 17 | 40 min. | 20 |

II. Write notes on :

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

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PAPER III – NEUROPHYSIOLOGY, ENDOCRINE AND REPRODUCTIVE SYSTEM*Q.P. Code: 281103***Time : Three Hours****Maximum : 100 marks****Answer ALL questions in the same order.****I. Elaborate on:**

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

II. Write Notes on:

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

[LD 1013]

OCTOBER 2013

Sub. Code: 1103

M.Sc. PHYSIOLOGY DEGREE EXAMINATION

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FINAL YEAR

PAPER III – NEUROPHYSIOLOGY, ENDOCRINE AND REPRODUCTIVE SYSTEM

Q.P. Code: 281103

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

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

II. Write 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.
