



QP Code 1401

Reg. No.:.....

First Professional MBBS Degree Examinations - September 2011

**PHYSIOLOGY - PAPER II**

Time : 3 hrs

Max marks : 50

- Answer all questions
- Draw diagrams wherever necessary

**Long essay (10)**

1. A 50 yrs old male comes with the history of difficulty to walk. On examination there is rigidity and resting tremors. His gait is abnormal.
  - What is your diagnosis.
  - How do you describe this rigidity and the resting tremor and explain their physiological basis.
  - Name the parts of the brain involved .
  - Describe the important functional connections.

(1+3+2+4=10)

**Short Essay:**

(2x5=10)

2. Describe the endometrial changes during a normal menstrual cycle and its hormonal regulation.
3. List any four functions of hypothalamus and explain any one

**Write briefly on:**

(5x3=15)

4. Milk ejection reflex
5. Disynaptic reflex.
6. Mechanism of action of steroid hormones.
7. Decerebrate rigidity
8. Functions of vestibular apparatus

**Draw and label:**

(2x2½=5)

9. Cortico spinal tract
10. Auditory pathway

**Explain the physiological basis of the following:**

(5x2=10)

11. Exophthalmos is a clinical feature of thyroid dysfunction
12. Sertoli cells are important in spermatogenesis
13. Calcium plays a major role in skeletal muscle relaxation
14. Near point of vision recedes rapidly with advancing age
15. Parathyroidectomy leads to signs of neuromuscular hyperexcitability

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