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)

- 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:

 $(2x2\frac{1}{2}=5)$

- 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 hyperexitability
