

Q.P. Code: 104001

Reg. no.: .....

**First Professional MBBS Degree Supplementary Examinations  
January 2018****PHYSIOLOGY- PAPER II****Time: 3 Hours****Total Marks: 50**

- Answer all questions
- Draw Diagrams wherever necessary

**Long essay****(10)**

1. A 65 years old woman was admitted to the hospital with the complaints of intention tremor in the left arm and missing the target when he attempted to do a work. On examination eye reveals nystagmus. Answer the following questions based on your knowledge in physiology:

- What is the diagnosis.
- Mention the characteristic of knee jerk in this patient.
- What is dysdiadachokinesia.
- Describe the gait in this patient giving the physiological basis
- What happens when flocculo-nodular lobe is damaged.

**(2+2+2+2+2)****Short essays****(2x5=10)**

2. Mechanism of synaptic transmission  
3. Role of mineralocorticoids in salt and water balance

**Answer briefly****(5x3=15)**

4. Milk ejection reflex  
5. Hyper secretion of growth hormone  
6. Supra spinal modulation of pain  
7. Functions of middle ear  
8. Castration before puberty

**Draw and label****(2x2½ =5)**

9. Antero lateral system  
10. Visual pathway

**Explain the physiological basis of the following****(5x2=10)**

11. Referred pain  
12. Thalamic phantom limb  
13. Administration of L dopa in Parkinson's disease  
14. Permissive action of glucocorticoids  
15. Corpus luteum of menstruation and pregnancy