

**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