

Q.P. Code: 104001

Reg. no.:

First Professional MBBS Degree Examinations, August 2013

PHYSIOLOGY – Paper II

Time: 3 Hours

Total Marks: 50

- *Answer all questions*
- *Draw Diagrams wherever necessary*

Long essay

(10)

1. A 50 years old patient of hypertension suddenly developed weakness of right upper and lower extremities and difficulty is speaking following a brief episode of loss of consciousness. On examination motor tone of his right extremities was found to be increased. Answer the following questions based on your knowledge in physiology :
- What would an examination of power and deep tendon reflexes of the patient reveal
 - What would examination of the plantar reflex of the patient most likely reveal
 - Explain the physiological basis of the findings of deep tendon reflexes in this patient
 - What is the most likely clinical diagnosis of his condition (2+2+5+1=10)

Short essays

(2x5 =10)

2. Metabolic effects of insulin
3. Denervation hypersensitivity

Answer briefly

(5x3=15)

4. Accommodation reflex
5. Pituitary dwarfism
6. Parkinsonism
7. Features of cerebellar lesions
8. Ovarian cycle

Draw and label

(2x2½=5)

9. Length-tension relationship in skeletal muscle
10. Wald's visual cycle - flow chart

Explain the physiological basis of the following

(5x2=10)

11. Patients with sensory ataxia lose balance on closing their eyes
12. Intra-uterine contraceptive devices prevent pregnancy
13. Diaphragmatic pain is felt at the tip of the shoulder
14. Patients of acromegaly may develop diabetes
15. Cardiac muscle cannot be tetanised
