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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
- Denervation hypersensitivity

Answer briefly (5x3=15)

- Accommodation reflex
- Pituitary dwarfism
- Parkinsonism
- Features of cerebellar lesions
- Ovarian cycle

Draw and label (2x2½=5)

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

Explain the physiological basis of the following

(5x2=10)

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

