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First Professional MBBS Degree Examinations July 2017

PHYSIOLOGY – Paper II

Time: 3 Hours Total Marks: 50

- Answer all questions
- Draw Diagrams wherever necessary

Long essay

(10)

- A 50 years old person complaints of increased appetite, increased thirst and increased frequency of urination. The blood glucose was found to be 180 mg/dl. Answer the following questions based on your knowledge in physiology:
 - What is your probable diagnosis.
 - Which hormone is affected.
 - What are the physiological effects of this hormone in the body
 - Enumerate the other hormones involved in the regulation of blood glucose(1+1+7+1=10)

Short essays (2x5 =10)

- Describe the regulation of body temperature during hot climate.
- Describe the regulation of secretion of cortisol and its physiological role

Answer briefly (5x3=15)

- Action of ADH
- Types of EEG wave forms
- Near response in normal eye
- Pituitary dwarfism
- 8. Role of hypothalamus in feeding behavior

Draw and label (2x2½=5)

- Muscle spindle
- Neuromuscular junction in skeletal muscle

Explain the physiological basis of the following

(5x2=10)

- Re-polarization phase of action potential
- Cogwheel rigidity
- Starling's law of muscle contraction
- 14. Immunological test of pregnancy.
- Milk ejection reflex.

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