

PHYSIOLOGY – Paper II



Time: 3 Hours

Total Marks: 50

- Answer all questions
- Draw Diagrams wherever necessary

Long essay

(10)

1. 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)

2. Describe the regulation of body temperate during hot climate.
3. Describe the regulation of secretion of cortisol and its physiological role

Answer briefly

(5x3=15)

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

Draw and label

(2x2½=5)

9. Muscle spindle
10. Neuromuscular junction in skeletal muscle

Explain the physiological basis of the following

(5x2=10)

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