

First BHMS Degree Examinations – October 2016

Physiology & Biochemistry II
(2015 scheme)

Time: 3 hrs

Max marks: 100

- Answer all questions
- Draw diagram wherever necessary

Long Essay

(2x15=30)

1. Name the hormones secreted from pituitary gland in detail. Enumerate the functions and disorders of posterior pituitary hormones (5+6+4=15)
2. Define gluconeogenesis. Enumerate the pathway of gluconeogenesis and add a note on diabetes mellitus (2+8+5=15)

Short Essay

(5x8=40)

3. Enumerate the functions of hypothalamus and add a note in its role in regulation of body temperature. (5+3=8)
4. Define deglutition and describe the mechanism of deglutition (2+6=8)
5. Define acuity of vision and explain how visual acuity is tested (2+6=8)
6. Define enzymes and classify enzymes with suitable examples (2+6=8)
7. What are ketone bodies and how ketone bodies are produced in the body. How does body try to combat ketosis

Short notes

(10x3=30)

8. Enumerate the properties of nerve fibres
9. Synapse
10. Functions of iron
11. What are phospholipids and classify with examples
12. Digestive enzymes
13. Explain the functions of aldosterone
14. Beri-beri
15. Classify amino acids with examples
16. Describe the functions of calcitonin
17. Functions of insulin
