

First BHMS Degree Supplementary Examinations, August 2015

PHYSIOLOGY & BIOCHEMISTRY- PAPER II

Time: 3 Hours

Max Marks: 100

- Answer all the questions
- Draw diagrams wherever necessary

Essays: (2x10=20)

1. Name the nuclei of thalamus. Describe the connections and functions of each nucleus of thalamus.
2. Explain the endocrine functions of pancreas by naming its hormones and its functions. Add a note on regulation of sugar levels.

Short notes: (10x5=50)

3. Compare the refractory period in skeletal and cardiac muscles.
4. Synapse.
5. Prefrontal cortex.
6. Regulation of blood calcium levels with normal values.
7. Composition of bile and differences between liver bile and gall bile.
8. Krebs's cycle.
9. Essential amino acids.
10. Nerve supply to salivary glands.
11. Peristalsis.
12. Digestion of lipids.

Answer briefly: (10x3=30)

13. Chylomicrons.
14. Electron transport chain.
15. Calcitonin.
16. Secretin
17. Gastrin.
18. HCl synthesis in stomach.
19. Neutralization of chyme in duodenum.
20. Clonus and tetanus.
21. Blood brain barrier.
22. Wernicke's area.