

First Year B.Pharm Degree Supplementary Examinations - March 2014

(2010 - Scheme)

HUMAN ANATOMY AND PHYSIOLOGY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw diagrams wherever necessary

Essay

(3x10=30)

1. Draw a neat labeled diagram of neuron. Explain how an action potential is generated and how nerve impulses are propagated along a nerve
2. Explain the composition and functions of blood.
3. Draw a diagram to show the microscopic structure of the thyroid gland. Narrate the steps in the synthesis of thyroxine.

Short notes

(14x5=70)

4. List out the differences between the sympathetic and parasympathetic nerves.
5. Draw a labeled diagram of the scapula and describe the bone.
6. Mention the types of valves in the heart and mention where it is present.
7. Functions of skin.
8. Describe the mechanism of micturation.
9. Describe the composition of cerebrospinal fluid. Explain how it is secreted and mention its functions.
10. Describe the composition and functions of gastric juice.
11. Enumerate the functions of cerebellum.
12. Explain ECG recording with the help of a diagram
13. Enumerate the stages of spermatogenesis.
14. Name the hormones of adrenal gland. Explain briefly any two actions of any one of them.
15. Mention the peculiarities of cardiac muscles.
16. Explain the physiology of hearing
17. Name various types of epithelial tissues. State where it presents
