

First Pharm D Degree Examinations - September 2012

Human Anatomy and Physiology

Time: 3 Hours

Total Marks: 70

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(2x10=20)

1. Describe the gross anatomy of an eyeball with a neat labeled diagram. Explain the physiology of vision.
2. Explain the conduction system of the heart with a neat labeled diagram. Describe the various events that take place during arterial systole

Short notes

(10x3=30)

3. Elaborate the chemical and neural mechanisms that regulate respiration
4. List the functions of hypothalamus.
5. Discuss the physiological effects of autonomic nervous system
6. Explain the mechanism of blood coagulation
7. Describe the phenomenon of *excitation- contraction coupling*
8. Enumerate the steps involved in the process of spermatogenesis
9. Explain the physiological role of Rennin-Angiotensin system
10. Describe mastication and deglutition
11. Birth control methods
12. Discuss the formation and circulation pathways of cerebrospinal fluid

Answer briefly

(10x2=20)

13. Why does heat stroke develop during endurance athletic activities?
14. List the bones of the cranium
15. Mention any four functions of kidneys
16. Enumerate any two skin diseases and state their causes
17. Mention the physiological actions of insulin
18. Mention the elementary tissues of the body with an example for each
19. Reflex arc.
20. List any four
21. Heart valves and their function.
22. Erythroblastosis foetalis
