

First Year B.Pharm Degree Supplementary Examinations, August 2016

HUMAN ANATOMY AND PHYSIOLOGY

(2010 - Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw diagrams wherever necessary.

Essay

(3x10=30)

1. Describe the formation, circulation and functions of cerebrospinal fluid with the help of a diagram. Explain the ventricles of brain
2. Draw a neat labeled diagram of eye ball. Explain the physiology of vision
3. Discuss the role of adrenal gland in salt, sugar and sex regulation.

Short notes

(14x5=70)

4. Define cardiac cycle. Explain the various events during cardiac cycle.
5. Classify various types of connective tissues with suitable examples. Enumerate functions of cartilage
6. Explain how action potential is transmitted through a synapse with the help of neat labeled diagram.
7. Describe the filtration membrane and its role in glomerular filtration.
8. Outline the blood coagulation cascade with a flow chart.
9. Erythropoiesis
10. Describe the internal anatomy of heart with a labeled diagram
11. Briefly describe various steps involved in ovarian cycle.
12. Describe the functional components of a reflex arc
13. Define micturition and explain how does the micturition reflex occur.
14. Describe different waves, intervals and segments of ECG
15. Factors affecting affinity of hemoglobin for oxygen
16. Define tidal volume. Name the muscles involved in respiration.
17. Describe the process of spermatogenesis.