

First Semester B.Pharm Degree Supplementary Examinations
June 2019
Human Anatomy and Physiology
(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essay

(2x10=20)

1. Explain anatomy of heart with the neat sectional diagram. Add a note on cardiac cycle.
2. Explain the general principles of cell communication. Describe the intracellular signaling pathway activation by extracellular signal molecule

Short Notes

(7x5=35)

3. Describe the parts and functions of cranial nerves
4. Neat labelled diagram of femur bone with its function
5. Describe the structure and functions of ciliated simple columnar epithelium and pseudostratified columnar epithelium
6. Functions of sympathetic nervous system
7. Formation, circulation and composition of lymph
8. Rh factor and ABO blood group
9. Hip joint.

Answer Briefly

(10x2=20)

10. Define blood pressure and mention its normal value
11. Heart sounds
12. Types of muscles
13. Electrocardiogram
14. Functions of reticulo-endothelial system
15. Diseases of the bone
16. Hemostasis
17. Bones of thoracic cavity
18. Functions of skin
19. What is sickle cell anemia.
