

**First Semester B.Pharm Degree Examinations March 2018**

**Human Anatomy and Physiology**

**(2017 Scheme)**

**Time: 3 Hours**

**Max. Marks: 75**

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

**Essay**

**(2x10=20)**

1. Describe the various events of cardiac cycle with the help of diagram
2. Discuss the internal structure of ear with a labelled diagram and explain the physiology of hearing

**Short Notes**

**(7x5=35)**

3. Describe the cell division by mitosis process.
4. Muscle tissue.
5. Explain the various types of movements at the joint.
6. Discuss the process of blood clot formation.
7. The structure and the functions of spleen.
8. Discuss the effect of stimulation of sympathetic nerves on various organs in ANS.
9. Explain the types of bones.

**Answer Briefly**

**(10x2=20)**

10. Significance of blood pressure.
11. Myocardial infarction.
12. List out the spinal nerves with its function.
13. Various layers of epidermis
14. Composition of extracellular body fluids.
15. Leukemia.
16. Functions of mitochondria.
17. Structure of smooth muscle tissue.
18. Neuromuscular junction.
19. Bones of Foot

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