

**QP Code: 121006**

**Reg. No.....**

**First Semester B. Pharm Degree Regular/Supplementary  
Examinations April 2025  
Human Anatomy and Physiology I  
(2017 and 2024 Scheme)**

**Time: 3 Hours**

**Max. Marks: 75**

- *Answer all questions to the point neatly and legibly* • *Do not leave any blank pages between answers* • *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together* • *Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay**

**(2x10=20)**

1. Describe the various events of cardiac cycle with the help of diagram
2. Explain the general principles of cell communication. Describe the intracellular signaling pathway activation by extracellular signal molecule

**Short Notes**

**(7x5=35)**

3. What are cranial nerves and give its functions
4. Describe the structure and functions of ciliated simple columnar epithelium and pseudo stratified columnar epithelium
5. Formation, circulation and composition of lymph
6. Rh factor and ABO blood grouping.
7. Describe the cell division by mitosis process.
8. Explain various types of joint movements.
9. The structure and the functions of spleen

**Answer Briefly**

**(10x2=20)**

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

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