

QP Code: 121006

Reg. No.....

**First Semester B.Pharm Degree Regular/Supplementary Examinations  
February 2020**

**Human Anatomy and Physiology  
(2017 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 anatomy of ear and explain the mechanism of hearing
2. Explain the conduction system of heart with a neat labelled diagram

**Short Notes**

**(7x5=35)**

3. Formation and fate of hemoglobin
4. Explain about spleen
5. Write about sympathetic nervous system
6. Difference between arteries and veins
7. Write about muscular tissue
8. Classify joints, explain about types of synovial joints
9. Structure and functions of connective tissue

**Answer Briefly**

**(10x2=20)**

10. Write the functions of cell
11. Write the pulmonary circulation
12. Write about taste buds
13. Write about nervous tissue
14. Define polycythaemia and sickle cell anaemia
15. Write the paracrine intracellular signaling
16. Name the bones of cranium
17. Define articulation and arthrology
18. Write the anatomy of spinal nerve
19. Functions of skin

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