

**VINAYAKA MISSION'S RESEARCH FOUNDATION  
(DEEMED TO BE UNIVERSITY), SALEM**

**B.PHARM. DEGREE EXAMINATION – JULY 2019  
First Semester**

**HUMAN ANATOMY AND PHYSIOLOGY I**

Time : Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions: (2 x 10 = 20)

1. Explain about the structure and functions of cell with a neat labelled diagram.
2. Describe the composition and functions of blood. Write about blood grouping.
3. Draw a neat labelled diagram of heart. Explain about conducting system of heart.

II. Write short answers on any **SEVEN** questions: (7 x 5 = 35)

4. Various systems of human body.
5. Connective tissue.
6. Draw a neat labelled diagram of skin.
7. Synovial joints
8. Reticulo endothelial system.
9. Cranial nerves
10. Mechanism of vision.
11. Blood circulation.
12. Regulation of blood pressure.

III. Write short notes on : (10 x 2 = 20)

13. Supine and prone position.
14. Cell junctions.
15. Neuromuscular junction.
16. Types of bone
17. Hemoglobin
18. Anemia
19. Tinnitus
20. Cataract
21. Hypotension
22. Artery.