

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

**B.PHARM. DEGREE EXAMINATION – January 2020
First Semester**

HUMAN ANATOMY PHYSIOLOGY - I

Time : Three hours

Maximum: 75 marks

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

1. a) Briefly discuss about cell division. (6)
b) Basic life process. (4)
2. Explain about physiology of muscle contraction.
3. Draw a neat diagram of eye and explain the physiology of vision.

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

4. Types of muscular tissue.
5. Skin.
6. Synovial joints.
7. Blood grouping and Rh Factors.
8. Haemoglobin.
9. Spinal nerves.
10. Functions of sympathetic and parasympathetic nervous system.
11. Conducting system of heart.
12. ECG.

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

13. Supination.
14. Oblique plane.
15. Osmosis.
16. Types of bones.
17. Articulation.
18. Haemopoiesis.
19. Rods and cones.
20. Deafness.
21. Cardiac cycle.
22. Arrhythmia.
