

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM  
(Deemed to be University)**

**Pharm.D DEGREE EXAMINATION - July 2019  
First Year**

**HUMAN ANATOMY AND PHYSIOLOGY**

Time: Three hours

Maximum: 70 marks

I. Write essays on any **TWO** questions: (2 x15 = 30)

1. Describe the structure, secretions and functions of anterior pituitary gland. Add a note on hyperthyroidism
2. Describe the anatomy of lungs and physiology of respiration with diagram.
3. With suitable diagram explain the anatomy of human brain. Write the functions of cerebellum.

II. Write short answers on any **SIX** questions: (6 x 5 = 30)

4. Write a note on white blood cells and their functions.
5. Histology of retina.
6. Juxtaglomerular apparatus.
7. Physiology of hearing.
8. Cranial nerves and its functions.
9. Write a note on drugs and athletics.
10. Physiological properties of skeletal muscle.
11. Micturition.

III. Write short notes on any **FIVE** question: (5 x 2 = 10)

12. Acromegaly.
13. Diabetes insipidus.
14. Explain the events of ECG.
15. Define Tidal volume.
16. Write any two resuscitation methods.
17. Any two functions of bone

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