

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

**Pharm.D DEGREE EXAMINATION - September 2021
First Year**

HUMAN ANATOMY AND PHYSIOLOGY

Time: Three hours

Maximum: 70 marks

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

1. Define hemostasis. List out the clotting factors. Add a note on the intrinsic and extrinsic blood coagulative pathways.
2. Explain the anatomy of spinal cord with a neat diagram along with its cross section showing nerve tracts and its function. Mention the functions of cerebrum.
3. Draw and describe the various parts of the human digestive system. Describe the mechanism of absorption process in detail.

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

4. Draw a neat labelled diagram of a cell and explain its different components.
5. Female reproductive hormones and their functions.
6. Major hormones produced by the pituitary gland.
7. Structure and functions of taste buds.
8. Mechanism of inhalation and exhalation.
9. Physiology of muscle contraction.
10. Anatomy of heart and explain heart sounds.
11. Renin angiotensin system.

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

12. Erythroblastofaetalis.
13. Mention the components of reflex arc.
14. ECG.
15. Micturition.
16. Otitis media.
17. Functions of spleen.
