Sl.No.: M19010 Sub. Code: 1010123

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM

(Deemed to be University)

MBBS DEGREE EXAMINATION – August 2018 FIRST YEAR

HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS – PAPER I

Time: Three hours Maximum: 80 marks

Answer ALL questions Draw diagrams wherever necessary

SECTION - A

I. Write essay on : $(1 \times 10 = 10)$

1. Describe the functions of different types of T-lymphocytes.

II. Write short notes on: $(4 \times 5 = 20)$

- 2. Briefly describe the electrical activity of Gastrointestinal smooth muscle
- 3. Discuss the abnormalities of micturition
- 4. Discuss the diffusion through the cell membrane
- 5. Compare the smooth muscle contraction with skeletal muscle contraction.

III. Answer briefly: $(5 \times 2 = 10)$

- 6. Effect of thyroid hormone of growth.
- 7. Functions of testosterone during fetal development
- 8. Causes of metabolic alkalosis
- 9. Thrombocytopenia
- 10. Law of the Gut.

SECTION - B

I. Write essay on : $(1 \times 10 = 10)$

11. Describe the actions of paratharmone. Add a note on hyposecretion of paratharmone.

II. Write short notes on : $(4 \times 5 = 20)$

- 12. Functions of placental hormones.
- 13. Functions of skin
- 14. Describe briefly the movements of small intestine
- 15. Discuss the proximal tubular reabsorption.

III. Answer briefly: $(5 \times 2 = 10)$

- 16. Filtration fraction
- 17. Renal glycosuria
- 18. Na⁺ k⁺ pump
- 19. Corpus Luteum
- 20. Peroxisomes.