

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

B.H.M.S. DEGREE EXAMINATION – October 2021

First Year

PHYSIOLOGY INCLUDING BIOCHEMISTRY PAPER - II

Time: Three hours

Maximum: 100 marks

I. Write long essays on any **TWO** of the following: (2 x 15 = 30)

- 1) Define Proteins. Explain the chemistry, Metabolism, Digestion of proteins.
- 2) Describe composition, secretion, functions, regulation of bile Juice.
- 3) Enumerate the descending tracts of spinal cord. Describe in detail pyramidal tracts. Write a note on the effects of upper and lower motor neuron lesions.

II. Write short essays on any **TEN** of the following: (10 x 5 = 50)

- 4) Explain Transportation and utilization of fats.
- 5) Explain urea cycle.
- 6) Define peristalsis. Explain different types of peristalsis.
- 7) Give an account of postural reflexes.
- 8) Describe how the pitch of the sound is analyzed in human ear (theories of hearing)
- 9) Draw a diagram of visual pathway and explain it.
- 10) What are female sex hormones? Explain action of one hormone.
- 11) Describe the puberty changes in male.
- 12) Classify the hormones secreted by Adrenal Cortex. Explain the actions of Cortisol.
- 13) What are catecholamines? Explain the regulation and secretion of Catecholamines.
- 14) Write an essay on gastric motility. What are the factors influencing gastric motility?
- 15) Explain the functions of saliva.

III. Write short notes of the following: (**Answer ALL**): (10 x 2 = 20)

- 16) Define vitamins and name fat soluble vitamins.
- 17) Deficiency of mineral in body leads to which problem.
- 18) Explain hunger contraction.
- 19) Defecation and nervous control.
- 20) Babinski sign.
- 21) Tests for hearing.
- 22) Cataract.
- 23) Intra uterine contraceptive device.
- 24) Define Diabetes. Name the types of diabetes.
- 25) Thyroglobulin.