

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

B.H.M.S. DEGREE EXAMINATION – August 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) Describe the structure and functions of thyroid gland. Explain how Thyroid function is assessed.
- 2) Give an account of composition and functions of pancreatic juice. How is the secretion regulated?
- 3) Enumerate the different ascending tracts of spinal cord and explain the course and termination of Pain pathway.

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

- 4) Describe the process of gastric emptying.
- 5) Explain functions of Placenta.
- 6) Basal ganglia.
- 7) Define Carbohydrates and classify them with examples.
- 8) Describe the different errors of refraction of Eye and how are they corrected?
- 9) Explain about essential amino acids.
- 10) Explain Urea cycle.
- 11) Define and describe enzymes with examples.
- 12) Explain Vitamin 'C' in terms of sources, requirement and functions.
- 13) Name the hormones of Adrenal Cortex and Mention their functions.
- 14) Describe Hypothalamus.
- 15) Spermatogenesis.

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

- 16) Functions of Thalamus.
- 17) Reticular formation.
- 18) Cerebrospinal fluid.
- 19) Dark adaption.
- 20) Corpus luteum.
- 21) Aromatic amino acids.
- 22) Lipopoly saccharide.
- 23) Body mass index.
- 24) Nyctalopia.
- 25) Puberty.
