

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

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

First Year

PHYSIOLOGY INCLUDING BIOCHEMISTRY PAPER - I

Time: Three hours

Maximum: 100 marks

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

- 1) Explain the Homoeostasis in the body with suitable examples.
- 2) What is hypoxia? Describe the types, causes and effects of hypoxia. Add a note on oxygen therapy.
- 3) Define Cardiac cycle. Describe various events of cardiac cycle with pressure and volume changes.

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

- 4) Describe fetal Circulation.
- 5) Explain cardiac Murmurs.
- 6) Explain the measurement functional residual capacity.
- 7) Explain carbon monoxide poisoning.
- 8) Compare cardiac muscle and skeletal muscle.
- 9) What are the functions of Red Blood Corposcles?
- 10) Explain Anemia with signs and symptoms.
- 11) What are the functions of blood?
- 12) Describe Peculiarities of renal circulation.
- 13) Explain the Reabsorption in water in renal tubules.
- 14) Explain Respiratory quotient or Respiratory exchange ratio.
- 15) Give account of micturition.

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

- 16) Explain Dead Space.
- 17) Explain Mountain Sickness.
- 18) Define Hypertension.
- 19) Define Myocardial infarction.
- 20) Explain the functions of skin.
- 21) Explain the role of hypothalamus in temperature regulation.
- 22) Explain Dialysis.
- 23) Explain the reabsorption of sodium in renal tubules.
- 24) List the functions of skin.
- 25) Explain fatigue.
