Sl.No: M19419 Course Code: 1610114

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

B.H.M.S. DEGREE EXAMINATION – October 2018 First Year

PHYSIOLOGY INCLUDING BIOCHEMISTRY - PAPER I

Time: Three hours Maximum: 100 marks

I. Write long essays on any **TWO** of the following:

 $(2 \times 15 = 30)$

- 1) Define Arterial Blood pressure. Explain measurement of Blood Pressure. Add a note on long term (Renal) regulation of Blood Pressure.
- 2) What is normal body Temperature? Explain heat balance and regulation of body Temperature. Add a note on fever.
- 3) Define Erythropoiesis. Describe the changes which takes place in each stage and factors necessary for erythropoiesis.

II. Write short essays on any **TEN** of the following:

 $(10 \times 5 = 50)$

- 4) Cardiac output
- 5) Juxta Glomerular apparatus
- 6) Refractory period in skeletal and cardiac muscle.
- 7) Hemolytic diseases of newborn / Erythroblastosis foetails
- 8) Mountain sickness
- 9) Hypoxia
- 10) Acid-Base Buffer system
- 11) Renal circulation and its peculiarities
- 12) Periodic Breathing
- 13) Cell Mediated Immunity
- 14) Homoeostasis
- 15) Surfactant

III. Write short notes of the following: (Answer ALL):

 $(10 \times 2 = 20)$

- 16) Stokes Adams syndrome
- 17) Vital capacity
- 18) Anion gap
- 19) Pheromones
- 20) Neuromuscular blockers
- 21) Tissue Macrophages
- 22) Roles of Kidney in maintaining acid base balance
- 23) Transfusion Reactions
- 24) Acclimitisation
- 25) Bain Bridge reflex.
