

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

M.D. DEGREE EXAMINATION - October 2018

GENERAL MEDICINE

**PART I - PAPER I
APPLIED BASIC SCIENCES IN GENERAL MEDICINE**

Time: Three hours

Maximum: 100 marks

**Answer any FOUR in Anatomy and Physiology. Three in other subjects.
All questions carry equal marks**

- 1. ANATOMY :** (4 x 5 = 20)
- a) Draw a diagram of transverse section of spinal cord
 - b) Embryology of ASD
 - c) Argyll Robertson pupil
 - d) Portal – systemic anastomosis
- 2. PHYSIOLOGY :** (4 x 5 = 20)
- a) Regulation of cardiac output
 - b) Maintenance of GFR
 - c) Feedback in hormone regulation
 - d) Basis of nerve conduction study
- 3. BIOCHEMISTRY :** (3 x 5 = 15)
- a) HMG CO A reductase enzyme
 - b) Troponin- I
 - c) Erythropoietin
- 4. PHARMACOLOGY :** (3 x 5 = 15)
- a) SGLT 2 inhibitors
 - b) Imatinib
 - c) Disulfiram
- 5. PATHOLOGY :** (3 x 5 = 15)
- a) Stellate cell
 - b) Ventricular remodeling
 - c) Free radicals in disease
- 6. MICROBIOLOGY :** (3 x 5 = 15)
- a) Oncogenic viruses
 - b) Prevention of VAP
 - c) Diagnosis of HIV infection