

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

M.D. DEGREE EXAMINATION - October 2019

ANAESTHESIOLOGY

**PART I - PAPER I : APPLIED BASIC SCIENCES RELATED TO
ANAESTHESIA**

Time: Three hours

Maximum: 100 marks

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

- I. ANATOMY :** (4 x 5 = 20)
1. Brachial Plexus
 2. Coronary circulation
 3. Neuromuscular Junction
 4. Anatomy of epidural space
- II. PHYSIOLOGY :** (4 x 5 = 20)
5. Lung volumes and capacities
 6. CSF circulation
 7. Coanda effect
 8. Scoline apnoea
- III. BIOCHEMISTRY :** (3 x 5 = 15)
9. Hyperkalemia
 10. Rothera,s test
 11. Metabolic acidosis
- IV. PHARMACOLOGY :** (3 x 5 = 15)
12. Sugammadex
 13. Antithyroid drugs
 14. Extra Anaesthetic uses of Lignocaine
- V. PATHOLOGY :** (3 x 5 = 15)
15. Disseminated intravascular coagulation
 16. Malignant hyperthermia
 17. Hepatorenal syndrome
- VI. MICROBIOLOGY :** (3 x 5 = 15)
18. Ventilator associated pneumonia
 19. Surviving sepsis bundle
 20. Care and sterilisation of Anaesthetic equipments.