

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

M.D. DEGREE EXAMINATION - May 2019

PAEDIATRICS

PART I - PAPER I – APPLIED BASIC SCIENCES IN PAEDIATRICS

Time: Three hours

Maximum: 100 marks

All question carry equal marks

I. ANATOMY :**(4 x 5 = 20)**

1. Development of brain and neural tube defects.
2. Development of diaphragm and diaphragmatic hernia.
3. Nerve supply to urinary bladder.
4. Normal histology of liver.

II. PHYSIOLOGY :**(4 x 5 = 20)**

5. Acid-base balance
6. Physiology of lactation
7. Brainstem evoked response audiometry (BERA)
8. Cerebral perfusion pressure (CPP)

III. BIOCHEMISTRY :**(3 x 5 = 15)**

9. Antioxidants
10. Site of secretion and role of digestive enzymes
11. Metabolism of Vitamin D

IV. PHARMACOLOGY :**(3 x 5 = 15)**

12. Antituberculous drugs
13. Disease modifying antirheumatic drugs (DMARDs)
14. Pharmacodynamics of antibiotics.

V. PATHOLOGY :**(3 x 5 = 15)**

15. Flow cytometry
16. Histopathology of intestine in malabsorption.
17. Lymphnode histopathology of Hodgkin's lymphoma

VI. MICROBIOLOGY :**(3 x 5 = 15)**

18. Stool tests in GIT infections and infestations.
19. Mechanism of antibiotic resistance.
20. Lab diagnosis of influenza.
