Sl.No. M21884 Course Code: 1150101

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

M.D. DEGREE EXAMINATION - October 2019

PAEDIATRICS

PART I - PAPER I - APPLIED BASIC SCIENCES IN PAEDIATRICS

Time: Three hours

Maximum: 100 marks

Answer any <u>FOUR</u> in Anatomy and Physiology. <u>Three</u> in other subjects. All questions carry equal marks

I. ANATOMY: $(4 \times 5 = 20)$

- 1. Embryology of cardiac septation
- 2. Development of thyroid gland
- 3. Portacaval anastomosis
- 4. Embryological development of upper GIT

II. PHYSIOLOGY: $(4 \times 5 = 20)$

- 5. Distal tubular function of kidney
- 6. Physiology of Micturition
- 7. Pathophysiology of acute diarrhoea
- 8. Determinants of cardiac output

III. BIOCHEMISTRY: $(3 \times 5 = 15)$

- 9. Bilirubin metabolism in newborn
- 10. Synthesis of adrenal hormones
- 11. Lab investigations for malabsorption.

IV. PHARMACOLOGY: $(3 \times 5 = 15)$

- 12. Antiviral drugs
- 13. Drugs in nephrotic syndrome other than steroids
- 14. Antihypertensives in hypertensive emergency.

V. PATHOLOGY: $(3 \times 5 = 15)$

- 15. Lab diagnosis of bacterial meningitis
- 16. Prevention of nosocomial infections
- 17. GeneXpert MTB/RIF

VI. MICROBIOLOGY: $(3 \times 5 = 15)$

- 18. Renal biopsy findings in systemic lupus erythematosus (SLE)
- 19. Histopathology of liver in biliary atresia
- 20. Peripheral blood smear in chronic hemolytic anemias.