

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD 1223]

**DECEMBER 2023
(OCTOBER 2023 EXAM SESSION)**

Sub. Code: 2030

**M.D. DEGREE EXAMINATION
BRANCH VII – PAEDIATRICS
PAPER I – APPLIED BASIC SCIENCES IN PAEDIATRICS**

Q.P. Code: 202030

Time: Three Hours

Maximum: 100 Marks

Write notes on:

I. ANATOMY: (4 x 5 = 20)

1. Vocal Cord Paralysis.
2. Developmental anomalies of Kidney.
3. Lumbricals muscle weakness and its interpretation.
4. Thoracic duct.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Physiology of Postural hypotension.
2. Functions of the Liver and tests to interpret it.
3. Urine concentration mechanism.
4. Metabolism of B12 and its defects.

III. BIO-CHEMISTRY: (3 x 5 = 15)

1. Role of ABG analysis in poisoning.
2. Management of Hyperkalemia.
3. LDH.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Role of Dietary supplements in Pediatrics.
2. Milrinone.
3. Mechanisms of Resistance of β lactam antibiotics.

V. PATHOLOGY: (3 x 5 = 15)

1. Describe smear study of a Hemolytic anemia.
2. Urine microscopy in office practice.
3. BCG adenitis.

VI. MICROBIOLOGY: (3 x 5 = 15)

1. Antimicrobial stewardship.
2. Diagnosis of fungal infections.
3. Diagnosis and categorization of Influenza like illnesses.
