

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

[MD 0723]

**JULY 2023
(MAY 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. Lymphatic drainage of face and its significance.
2. Defects in the development of Neural tube.
3. Portacaval anastomosis.
4. Embryology of 4th Branchial arch.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Physiology of Lactation.
2. Formation of RBC and factors affecting it.
3. Fetal to neonatal transition of breathing.
4. Intestinal motility and its disorders.

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

1. HPLC (High Performance Liquid Chromatography) in Hemoglobinopathies.
2. New born screening.
3. Diagnosis of Debrancher enzyme deficiency.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Doxycycline.
2. Intra Thecal Methotrexate.
3. Inhaled corticosteroids.

V. PATHOLOGY: (3 x 5 = 15)

1. Role of Immunohistochemistry in diagnosis of Tumors.
2. Liquid biopsy.
3. Pathological changes in Kidney in glomerulosclerosis.

VI. MICROBIOLOGY: (3 x 5 = 15)

1. Gene Xpert.
2. Inflammatory markers in Pediatrics.
3. RT – PCR tests.
