

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

[DM 0822]

AUGUST 2022

Sub. Code :1506

D.M. – PAEDIATRIC NEUROLOGY

**Paper I – BASIC SCIENCES (CONSISTING OF NEURO ANATOMY,
NEURO-PHYSIOLOGY, NEURO CHEMISTRY, NEURO PATHOLOGY,
NEURO PHARMACOLOGY, NEURO MICROBIOLOGY,
PARASITOLOGY, IMMUNOLOGY, EPIDEMIOLOGY AND GENETICS**

Q.P. Code: 161506

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Discuss the structure and function of the neuromuscular junction and briefly mention the clinical significance.
2. Describe the mechanisms involved in the control of micturition.

II. Write notes on: (10 x 7 = 70)

1. Commissural fibers of the brain.
2. Transgenic mice in neural development studies.
3. Neurobiology of ADHD.
4. The respiratory chain and mitochondrial complexes.
5. Anatomy of cerebral sinovenous circulation.
6. Anti-dystonia medications.
7. Folic acid and neurology.
8. Visual pathway.
9. Cobalamin metabolism.
10. Pathophysiology of neonatal seizures.

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

[DM 0124]

JANUARY 2024

Sub. Code :1506

D.M. – PAEDIATRIC NEUROLOGY

PAPER I – BASIC SCIENCES

**(CONSISTING OF NEURO ANATOMY, NEURO-PHYSIOLOGY,
NEURO CHEMISTRY, NEURO PATHOLOGY,
NEURO PHARMACOLOGY, NEURO MICROBIOLOGY,
PARASITOLOGY, IMMUNOLOGY, EPIDEMIOLOGY AND GENETICS)**

Q.P. Code: 161506

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Cross-section of Spinal Cord.
2. Pathophysiology of Super-refractory Status Epilepticus .

II. Write notes on: **(10 x 7 = 70)**

1. Sanger Sequencing.
2. Triple repeats.
3. Blood supply of Internal Capsule.
4. F-waves.
5. H-Reflux.
6. Monoclonal antibodies.
7. Fenfluramine.
8. Transgenic mice in neural development studies.
9. Identification of various stages of bleeding in the MRI of the brain.
10. Role of CT vs MRI of the brain in Intensive care unit.
