

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

[DM 0124]

JANUARY 2024

Sub. Code :1509

D.M. – PAEDIATRIC NEUROLOGY

PAPER IV – RECENT ADVANCES IN NEUROLOGY

Q.P. Code: 161509

Time: Three Hours

Maximum: 100 Marks

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

1. Approach to Hyperhomocysteinemia.
2. Radiological approach to cerebellar atrophy.

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

1. SCN8 Encephalopathy.
2. Tractography.
3. Diffuse Leptomeningeal Glioneuronal Tumour.
4. Gain of function SCN1A disorder spectrum.
5. Programmable Shunt.
6. Genetic testing in ASD.
7. Mitochondrial dysfunction in ASD.
8. Cerebellar Mutism.
9. Neurological manifestations of MIS-C.
10. Reversible Cerebral vasoconstriction syndrome in children.

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

[DM 0824]

AUGUST 2024

Sub. Code :1509

D.M. – PAEDIATRIC NEUROLOGY

PAPER IV – RECENT ADVANCES IN NEUROLOGY

Q.P. Code: 161509

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on

(2 x 15 = 30)

1. Discuss the role of mTOR inhibitors in the pharmacologic management of tuberous sclerosis complex and their role in other rare neurodevelopmental disorders.
2. Recent advances in diagnosis and management of tuberculous meningitis in children.

II. Write notes on:

(10 x 7 = 70)

1. Neural stem cells in lysosomal storage disorders.
2. Novel therapy in hereditary neuropathies.
3. Reversible cerebral vasoconstriction syndrome in children.
4. Neuromodulation for intractable childhood epilepsy.
5. State of the art genetic testing for autism.
6. Deep Brain stimulation.
7. Update on Stereotypic movement disorders.
8. Diffusion tensor imaging.
9. Precision medicine in genetic epilepsy.
10. Genetics of ischemic stroke in childhood.

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

[DM 0225]

FEBRUARY 2025

Sub. Code :1509

D.M. – PAEDIATRIC NEUROLOGY

PAPER IV – RECENT ADVANCES IN NEUROLOGY

Q.P. Code: 161509

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on

(2 x 15 = 30)

1. Clinical features and update in the management of Neurofibromatosis type 1.
2. Elaborate on the neuroanatomy of the thalamus, perinatal lesions affecting lesions affecting it and neurological development.

II. Write notes on:

(10 x 7 = 70)

1. Acute presentation of abusive head trauma.
2. Radiological evaluation of Moyamoya disease.
3. Infection-related acute encephalopathy.
4. Primary paediatric headache disorder types and characteristics.
5. Genetics of childhood onset hereditary spastic paraplegia.
6. Perampanel in paediatric epilepsies.
7. FDA-approved therapies for spinal muscular atrophy.
8. Paediatric Hashimoto's encephalopathy.
9. Biomarkers for MOGAD.
10. Hypomyelinating leukodystrophy – MRI diagnosis.
