

QP Code: 104522

Reg. No: .....

**DM (Paediatric Neurology) Degree Supplementary Examination  
June 2024**

**Paper IV – Recent Advances in Paediatric Neurology, Neuro-rehabilitation and  
National Programmes, Medical Statistics**

**Time: 3 hrs**

**Max marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay: (20)**

1. Enumerate the biomarkers of CNS (Central Nervous System) demyelinating disorders and discuss their role in diagnosis and follow up of these disorders

**Short essays: (8x10=80)**

2. Discuss the latest ILAE (International league Against Epilepsy) guidelines in context of epilepsy syndromes with onset in neonates and infants
3. Discuss the role of neuromodulation in epilepsy
4. Role of gene therapy in childhood-onset neuromuscular disorders
5. Discuss the non-pharmacological interventions for movement disorders
6. Explain the steps to conduct a meta-analysis
7. Explain briefly about the neuroimaging techniques (A) Diffusion Tensor Imaging (DTI) and (B) Arterial Spin Labelling (ASL)
8. Indian government schemes for children with disability secondary to neurological disorders
9. Write a note on the effect of air pollution on children's brain development

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