

QP Code: 103522

Reg. No: .....

**DM (Paediatric Neurology) Degree Regular/Supplementary  
Examination April 2025**

**Paper III – Electrophysiology, Neuroimaging, Neurogenetics, Neurosurgery,  
Neuro Psychiatry**

**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. A 12-year boy with premorbid normal development presented with subacute onset of altered personality, visual/auditory hallucinations and sleep issues without any seizures or movement disorder. Enlist the possible differentials and how will you approach to investigate and manage this case

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

2. Ontogeny of EEG (electroencephalography) from in utero till 5 years of age
3. Discuss the approach to attribute pathogenicity to a variant of uncertain significance (VUS) detected on clinical exome sequencing test of a child with epileptic encephalopathy
4. Discuss the genetic basis of ASD (Autism Spectrum Disorder) and formulate an approach for genetic testing in a 3- year- old boy with ASD without dysmorphism and negative family history
5. How will you manage a child with severe traumatic brain injury and discuss the available surgical options
6. Radiological clues to genetics of CNS malformations
7. Discuss briefly regarding Single Fiber EMG (SF-EMG) and Repetitive Nerve Stimulation Test (RNST)
8. Write brief notes on BERA (brainstem evoked response audiometry) and VEP (visual evoked potential) in children
9. Write a note on pharmacological and non-pharmacological treatment of pediatric migraine

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