

QP Code: 104522

Reg. No:

**DM (Paediatric Neurology) Degree Supplementary Examination
February 2023**

**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. Design a RCT (Randomized controlled clinical trial) to test the efficacy of new anti-seizure medication against hormonal therapy (ACTH: adrenocorticotrophic hormone) for epileptic spasms and discuss the various steps

Short essays:

(8x10=80)

2. Role of HSCT (hematopoietic stem cell transplantation) in childhood onset neurodegenerative disorders
3. Recent understanding of pathogenesis of CNS (Central Nervous System) tuberculosis and its therapeutic implications
4. Discuss the novel therapeutic strategies in the rehabilitation of pediatric stroke
5. Explain the parameters used for assessing the diagnostic accuracy of a test
6. Discuss the role of precision medicine in epilepsy
7. Role of Virtual Reality (VR) and Augmented Reality (AR) in Pediatric Neurology
8. Write a brief note on CRISPR (Clustered Regularly Interspersed Short Palindromic Repeats) – its applications in childhood neurological disorders
9. Neurological complications associated with vaccination
