

QP Code: 104517

Reg. No: .....

**D.M. (Neonatology) Degree Regular/Supplementary Examinations  
April 2025**

**Paper IV– Recent Advances, Research Methodology, Allied Disciplines (Eg Pediatric  
Surgery) Neurodevelopmental Follow-Up, Rehabilitation Etc.**

**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. Discuss the third epidemic of Retinopathy of Prematurity (ROP) and its reasons. What are the technological and programmatic advances to prevent visual loss due to ROP.

**Short essays:**

**(8x10=80)**

2. Importance of sample size calculation in research studies
3. Study designs for clinical research
4. Management of an infant born with congenital diaphragmatic hernia
5. Diagnosis and management of an infant born with vesiculo-bullous lesions
6. Strategies to tackle the menace of antibiotic resistance
7. Methods of assessment for developmental follow-up of a high risk infant during first year of life
8. Assessment and management of pain in the NICU
9. Advances in management of neonatal shock

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