

NEONATOLOGY**PAPER-III**

Time: 3 hours
Max. Marks: 100

NEONAT/D/19/19/III

Important Instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. a) Cerebral function monitoring. 5+5
b) Newer anticonvulsants for neonatal seizures.
2. a) Zika virus infection in newborn – etiology and prevention. 5+5
b) Home based versus facility based newborn care.
3. a) Less invasive modes of surfactant administration. 5+5
b) Surfactant for non-RDS respiratory conditions.
4. a) How will you investigate an outbreak in the NICU? 5+5
b) Describe antibiotic stewardship.
5. a) Describe the workflow in a Human Milk Bank. 5+5
b) Hazard Analysis Critical Control Points in human milk banking.
6. Describe maternal-infant microbiomes and their clinical implications. 5+5
7. Describe the role of artificial intelligence in Neonatology with examples. 10
8. a) Describe the stabilization and safe transport of a neonate with congenital heart disease. 5+5
b) Describe the challenges in neonatal transport in the Indian context.
9. a) Compare commonly used pain assessment scores. 5+5
b) Opiates for mechanically ventilated neonates.
10. a) Developmentally supportive care for newborn. 5+5
b) Hearing assessment of newborn.
