

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:

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