

NEONATOLOGY

PAPER – I

Time : 3 hours
Max. Marks : 100

NEONAT/D/17/19/I

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. | Describe the functional structure of human placenta and discuss physico-chemical and structural properties regulating drug transfer. | 4+3+3 |
| 2. | Discuss the temperature regulation in a neonate. Write about the concept of therapeutic hypothermia. Does the literature support its use, please elaborate. | 3+4+3 |
| 3. | Point of care testing devices in neonatal care. | 10 |
| 4. | Enumerate Levels of Neonatal care and describe requirements for level III (Level 3) Neonatal care. | 3+7 |
| 5. | Discuss future prospects of:
a. Human Milk Banking
b. Cord blood banking | 5+5 |
| 6. | a. Informed consent in Research studies
b. Ethics in Research | 5+5 |
| 7. | Discuss principle of use of NIRS and its clinical applicability in Neonatal practice. | 4+6 |
| 8. | Discuss the role of innate host defences in susceptibility to Early Onset Neonatal Sepsis. | 10 |
| 9. | Enumerate the available postnatal growth charts. Evaluate their merits and demerits. | 4+6 |
| 10. | Strategies for fetal neuro-protection. | 10 |
