

NEONATOLOGY

PAPER-I

NEO/J/18/19/I

Time: 3 hours  
Max. Marks:100

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 key evolutions of the circulatory system at birth and discuss their practical implications.                  | 5+5 |
| 2.  | Outline the pathogenesis of septic shock in a neonate & discuss the applied therapeutic principles.                       | 5+5 |
| 3.  | Antenatal diagnosis of Down Syndrome and the principles of counselling of parents after fetal diagnosis of Down syndrome. | 6+4 |
| 4.  | Principles of establishing a neonatal transport system for a district & enlist the role of smartphone in the transport.   | 8+2 |
| 5.  | Describe the statistical method to evaluate the utility of a new diagnostic test.   | 10  |
| 6.  | Antibiotic stewardship in a NICU.   | 10  |
| 7.  | Classify the causes of thrombocytopenia in a neonate and discuss the management of Neonatal Allo-immune Thrombocytopenia. | 6+4 |
| 8.  | Describe thermo-neutral zone (TNZ) and write factors affecting TNZ in neonatal care.                                      | 5+5 |
| 9.  | Pathophysiology and management of persistent pulmonary hypertension in a new born.  | 5+5 |
| 10. | Development of urinary system and detection of its disorders in the fetus.  | 5+5 |

\*\*\*\*\*