

NEONATOLOGY

PAPER - I

NEONAT/D/13/19/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.

1. Discuss the pathophysiology and management of neonatal supra-ventricular tachycardia. 5+5
2. Enumerate the causes of shock in neonates. Describe the pathophysiology of septic shock. 3+7
3. How is the appropriate test of statistical significance chosen for any data? What statistical analysis is required to evaluate a new diagnostic test? 5+5
4. Discuss the aetiopathogenesis, clinical features and management of fungal sepsis in neonates. 3+3+4
5. What is ventilator induced lung injury and what are lung protection strategies in neonates? 5+5
6. Enumerate the pulmonary vasodilators and vasoconstrictors in neonates. Describe the pathophysiology of persistent pulmonary hypertension of the newborn. 4+6
7. Describe the role of anticonvulsants in neonates. What are the risks associated with their use? 6+4
8. Discuss the daily requirement, role and assessment of adequacy of vitamin D in neonates. 2+3+5
9. What is developmentally supportive care? How would you organize this in Nursery? 3+7
10. Describe the risk factors and pathophysiology in necrotising enterocolitis. 3+7
