

**NEONATOLOGY**

**PAPER-I**

Time: 3 hours  
Max. Marks:100

NEONAT/J/19/19/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 transition of fetal to neonatal circulation. What are the pathological conditions arising out of abnormal transition? 5+5
2. Describe the pathophysiology of preterm delivery and management. 5+5
3. What is epigenetics? Discuss its application in antenatal and neonatal diseases. 2+(4+4)
4. Describe the development of gastrointestinal tract and surgical malformations of gut. 5+5
5. What is metaanalysis? How do you conduct and analyze the metaanalysis? 2+4+4
6. a) Intrauterine growth and postnatal growth curves. 5+5  
b) Various non-parametric tests and their utility.
7. What is the pathogenesis of intrauterine infections and its outcomes? 5+5
8. What is the definition of still birth? Describe the aetiology, prevention and management of still births. 2+8
9. How do you stabilize the newborn before Referral? Describe the fundamentals and guidelines of neonatal transport. 5+5
10. a) Skincare in newborns. 5+5  
b) Various pain scales and pain management .

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