

**NEONATOLOGY**

PAPER – I

NEONAT/J/17/19/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. a) What is the effect of Neonatal Intensive Care Unit environment on the neonate? 5+5  
b) Concept of Developmentally supportive care in the NICU.
2. a) Early chorionic villus sampling. 3+3+4  
b) Late chorionic villus sampling.  
c) Indications for cordocentesis.
3. Prenatal diagnosis of Down syndrome. 10
4. What are the various factors which affect the susceptibility to the deleterious effects of maternal drugs? 10
5. Epidural analgesia for labor and its benefits. 6+4
6. Cardio-respiratory adaptations at birth. 10
7. a) What are the principles of fluid and electrolyte therapy in neonates? 5+5  
b) Management of a neonate with hypernatremic dehydration
8. a) Donor human milk. 3+3+4  
b) Fortification of human milk.  
c) Colostrum oral care.
9. a) Convection warmed incubators. 5+5  
b) Thermal Neutral Radiant warming
10. a) Nested case control study. 3+4+3  
b) Survival Analysis.  
c) Forest plot

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