

NEONATOLOGY

PAPER-I

NEONAT/D/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 following bio-statistical methods: 5+5
 - a) Estimation of sample size.
 - b) Likelihood ratio.
2. Discuss the following aspects regarding surfactants: 5+5
 - a) Surfactant synthesis and metabolism.
 - b) Newer surfactants.
3. Discuss about Bronchopulmonary dysplasia in newborn: 5+5
 - a) Pathophysiology.
 - b) Recent advances in management.
4. a) What is Evidence Based Medicine? 5+5
b) What are its strengths and weaknesses?
5. Discuss about the following aspects of fetal development: 5+5
 - a) Factors affecting fetal weight at birth.
 - b) Factors affecting placental circulation.
6. Describe the following aspects of antenatal-perinatal care: 3+4+3
 - a) Biophysical profile of fetus.
 - b) Intrapartum fetal monitoring.
 - c) Expanded New Ballard Score.
7. a) Importance of "Thermoneutral environment" in neonatal care. 5+5
b) Devices for maintenance of temperature of newborn infants.
8. Discuss the following regarding multiple gestation: 6+4
 - a) Risks associated with multiple gestation.
 - b) Fetal reduction. P.T.O

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| 9. | a) Hyperglycemia : diagnosis and management. | 5+5 |
| | b) Diagnosis and management of acute kidney injury in the newborn. | |
| 10. | Embryology, development and outcome of neonates with congenital diaphragmatic hernia. | 4+3+3 |
