

NEONATOLOGY

PAPER-I

Time: 3 hours
Max. Marks:100

NEO/D/20/19/I

Important Instructions:

- *You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.*
- *Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.*
- *No additional supplementary answer sheet booklet will be provided.*
- *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 development of blood brain barrier and discuss the pathophysiology of bilirubin induced neurologic dysfunction. 5+5
2. Detail the antenatal management and counseling of a pregnant lady presenting at 10 weeks of gestation to the perinatal clinic and whose previous baby had:
a) Congenital adrenal hyperplasia.
b) Down syndrome. 5+5
3. Pharmacotherapy of neonatal jaundice. 10
4. a) PRISMA statement.
b) ROC curve. 5+5
5. a) Developmental assessment scales for Indian infants (DASII).
b) Human milk banking. 5+5
6. Discuss 'point of care' testing devices in Neonatal care. 10
7. a) Forest plot.
b) GRADE Process. 5+5
8. Discuss the functional structure of Human placenta and discuss physico-chemical and structural properties regulating drug transfer. 4+3+3

P.T.O.

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| 9. | a) Explain the physiology of transition from fetal to neonatal circulation. | 5+5 |
| | b) Pathophysiology of persistent pulmonary hypertension. | |
| 10. | a) Describe the equipment and mechanisms of action of Therapeutic hypothermia for a neonate with hypoxic ischemic encephalopathy (HIE). | 6+4 |
| | b) Enumerate the eligibility criteria and complications related to Therapeutic hypothermia. | |
