FINAL EXAM
DECEMBER 2019

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NEONATOLOGY PAPER-I

Time: 3 hours Max. Marks: 100 NEONAT/D/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.	a) Describe fetal blood circulation and the changes that occur at birth.b) Describe resuscitation with intact placental circulation.	5+5
2.	a) Describe the development of brain and spinal cord.b) Describe the types of spinal dysraphism and their prevention.	5+5
3.	a) Discuss the pathophysiology of perinatal asphyxia.b) Enlist the important neuroprotective strategies and their mechanism of action.	5+5
4.	Describe the pathophysiology and management of necrotizing enterocolitis.	5+5
5.	 a) Allocation concealment. b) Number needed to treat (NNT). c) Receiver Operating Characteristic (ROC) curve. 	2+3+5
6.	a) Draw a CONSORT flow chart and describe the steps in a Randomized Controlled Trial.b) Describe a Forest Plot.	5+5
7.	a) Bioactive factors in human milk.b) Human milk fortification – types and challenges.	5+5
8.	a) Describe the physiology of calcium homeostasis.b) Discuss the etiology and management of hypocalcemia in a newborn.	5+5
9.	Describe the Antenatal Doppler Indices used in assessment of fetal wellbeing and discuss their clinical applications.	5+5
10.	a) Congenital rubella syndrome - clinical features and prevention.b) Neonatal tetanus - clinical features and management.	5+5