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NEONATOLOGY PAPER-I

Time: 3 hours NEONAT/J/20/19/I

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) Mechanisms of antimicrobial drug resistance.b) Investigating a sepsis outbreak in NICU.	5+5
2.	a) Discuss pathogenesis of septic shock.b) Time sensitive goal directed stepwise management of septic shock.	4+6
3.	a) Describe the pathophysiology of hydrops fetalis.b) Discuss the indications and complications of intrauterine transfusion.	5+5
4.	a) Describe stages in the development of the lung.b) Describe the embryologic basis of any two anomalies due to maldevelopment during any two stages.	5+5
5.	a) Discuss criteria for diagnosis for congenital hypothyroidism.b) Management algorithm for congenital hypothyroidism.	3+7
6.	 a) Tabulate severity classification of ROP. b) Discuss: I. Indications of various treatment modalities. II. Treatment of threshold ROP. 	4+3+3
7.	A 5-day-old term baby, birth weight 2.9 kg, presents with current weight of 2.0 kg with a serum sodium of 168 mEq/l. Discuss fluid management of this baby for the next 48 hours.	10
8.	a) Nested case control study.b) Receiver Operating Characteristic (ROC) curves.	5+5
9.	a) Informed consent and assent.b) Phases of clinical trials.	5+5
10.	a) GRADE.b) Confidence interval.c) Advantages of randomization.d) Likelihood Ratio.	3+3+2+2
