NEONATOLOGY
PAPER-III

Time: 3 hours NEONAT/J/20/19/III
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) Human milk oligosaccharides and their clinical significance. 5+5
   b) Evaluation and management of persistent hypoglycemia.

2. Good clinical practices that you would like to follow in Special Newborn Care Units. 10

3. a) Supraventricular tachycardia in a neonate. 4+3+3
   b) Enumerate echocardiographic criteria for a hemodynamically significant PDA.
   c) The pharmacological management of hemodynamically significant PDA in a 1.2 kg preterm neonate.

4. a) KDIGO criteria for acute kidney injury. 5+5
   b) Management of the neonate with antenatally diagnosed hydronephrosis.

5. A twenty-day old infant presents with increasing jaundice. Outline the causes, approach to diagnosis and management of this infant. 10

6. a) Evidence for Magnesium Sulphate to the pregnant woman to improve neonatal outcomes. 5+5
   b) Critical Congenital Heart Disease screening in neonates.

7. Discuss 'Care bundles' for prevention of: 5+5
   a) Central Line associated Blood Stream Infection.
   b) Ventilator associated pneumonia.

8. a) Minimally Invasive Surfactant Therapy. 4+6
   b) Patient triggered ventilation.

9. a) New born Hearing Screening protocol. 5+5
   b) Evidence regarding use of Antenatal Steroids beyond 34 weeks' pregnancy.

10. Mechanism of action, indications, evidence and protocol for administration of Inhaled Nitric oxide. 3+2+3+2

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