

NATIONAL NEONATOLOGY FORUM
NNF FELLOWSHIP EXIT EXAMINATION
THEORY PAPER -1
OCTOBER 2022 - Max marks 100

- Attempt all questions in order.
- Each question carries 10 marks.
- Do not leave any blank pages between two answers.
- Answer all the sub questions of a single question together.
- Start the answer to a question on a fresh page.

1. An Obstetrician refers 37-year-old, 18 weeks, G4P0A3 woman with an antenatal scan showing lateral ventricular dilatation of 16 mm on both sides.
 - a) What are the likely causes of this condition? (2)
 - b) How will you investigate ? (2)
 - c) How will you counsel this family? (3)
 - d) What will be the immediate and long-term management strategies post-delivery for this condition? (3)

2.
 - a) Short note on LISA and SALSA? (3)
 - b) Difference between New BPD and Old BPD? (4)
 - c) Thresholds for blood transfusion in preterm neonates (NNF Guidelines) (3)

3. A 1.1 kg neonate was admitted to your unit and you have to write the nutrition orders for the baby
 - a) Explain Minimal enteral nutrition in this neonate (3)
 - b) Write the Parenteral nutrition order for this neonate for Day 1 (2)
 - c) How will you monitor PN in this neonate (2)
 - d) How will you ensure adequate growth on enteral feeding? (3)

4. You are taking care of a baby in NICU who is 30 days old now. The baby was born at 30 weeks of gestation with a birth weight of 1300 grams. Currently the baby is weighing 1700 grams and is on full orogastric feeds with expressed breast milk. There are no ongoing medical issues and baby is only kept for routine preterm care.
 - a) What criteria needs to be fulfilled before discharge of this baby? (2)
 - b) What are the screening tests that you will perform prior to discharge? (3)
 - c) Which nutritional supplements are needed in the first year? (2)
 - d) What would be your follow up schedule and different assessments/ interventions for this baby till 2 years of age? (3)

5. a) Kleiheur Betke test? (3)
b) Approach to a 20 days neonate with total serum bilirubin of 11mg% and direct serum bilirubin of 5 mg%? (4)
c) Approach to a neonate with early onset thrombocytopenia? (3)
6. Write short notes on
a) Mechanisms of antibiotic resistance (3)
b) Newer modalities in the diagnosis of neonatal sepsis. (3)
c) Enumerate the strategies for rational antibiotic use. (4)
7. a) What are the requirements in setting up the comprehensive lactation management centre. (CLMC) (6)
b) What are the differences between pasteurized human donor milk (PDHM) and mother's own milk (MOM) ? (4)
8. Write short answers (5+5)
a) Limitations of Transcutaneous bilirubinometry
b) USG based grading of PVL and strategies for prevention.
9. A 27 weeks pregnant mother is admitted in antenatal ward with a history of threatened preterm labour. Her antenatal history is uneventful. Anomaly scan is normal.
a) What specific interventions will you suggest to your obstetric colleague to optimize outcome of this fetus? (5)
b) Discuss the delivery room interventions for management of this neonate. (5)
10. a) What are the risk factors for hearing loss in Neonates ? (3)
b) What are the current recommendations for newborn hearing screening? (4)
c) Enumerate the difference between OAE & AABR (3)