



NNF FELLOWSHIP EXAMINATION–

PAPER 2 ADVANCED NEONATOLOGY, CRITICAL CARE, PERINATOLOGY AND SURGERY

October 2016

All questions are compulsory.

Draw diagrams where necessary

Duration–3 hours Marks: 10 x 10 =100

1. What are the various ways by which Non Invasive Ventilation can be given to a preterm neonate? Discussion in detail about Indications, Mechanism of action and complications of HHFNC? **(4+ 6)**
2. Explain fetal circulation with diagram, Give definition, etiology, pathophysiology and management of PPHN in a term neonate. **(3+7)**
3. How will you organize ROP screening program in SCNU? Explain role of pediatrician in prevention and management of ROP. **(5 + 5)**
4. Discuss the assessment, investigations and management of a baby with antenatal diagnosis of diaphragmatic hernia. **(3+ 2+ 5)**
5. How will you diagnose acute kidney injury in a neonate with perinatal asphyxia? How will you manage such cases? **(4+6)**
6. Prepare a TPN Plan of a Preterm 30 weeks of GA with Birth Weight of 980 grams on day 3 of life. What is the concept of Early Aggressive Nutrition? Give doses and duration of Vitamins and micronutrients you will start in this baby at discharge. **(5+3+2)**
7. How will you assess pain in preterm neonates. Write Pharmacological and non- pharmacological measures to manage pain in neonates. **(4 + 6)**
8. Define HAI's? Enumerate different HAI of NICU, Give definition, diagnostic criteria and bundles to prevent them? **(2 +3+5)**
9. Discuss physical and photobiological characteristics of different types of phototherapy devices. Compare LED phototherapy vs CFL phototherapy units. **(6 + 4)**
10. What are the indications for surfactant therapy. Mention different methods of surfactant delivery. Comment on newer surfactants. **(2 + 3+ 5)**