

IAP Neonatology Chapter Fellowship Examination – July, 2014

Time Allowed: 3 Hours

PAPER I

Maximum Marks: 100

Each question carries equal marks

Attempt any 5 questions out of 7

1. a. Describe current scenario of Infant and Neonatal Mortality Rate (IMR and NMR) in India. Which are the best and worst performing states? (5)  
b. What are the most common causes and their percentage contribution to neonatal deaths in India? (5)  
c. Elaborate various strategies in order of priority to r and NMR in India? (10)
2. Write short notes on (Any 4, 5 marks each)
  - a. Human milk fortifier
  - b. Role of antenatal steroids and postnatal steroids in neonatology
  - c. Draw IAP NNF NRP algorithm
  - d. Home based neonatal care of LBW babies
  - e. Humidified high flow nasal cannula
3. Write short notes on (Any 4, 5 marks each)
  - a. Strategies to prevent Necrotizing Enterocolitis
  - b. Vitamin K deficiency bleeding (VKDB)
  - c. Delayed umbilical cord clamping and umbilical cord milking
  - d. Strategies to prevent medication errors in NICU
  - e. Newborn metabolic screening
4. Describe (5 marks each)
  - a. Principles of Fluid & Electrolyte therapy in neonates.
  - b. Monitoring of Fluid & Electrolyte therapy
  - c. Fluid and electrolyte strategy in
    - i. Perinatal asphyxia
    - ii. PDA
    - iii. Chronic Lung Disease
    - iv. Postoperative gastrointestinal disorders
  - d. Two electrolyte abnormalities you commonly encounter in NICU and management
5. a. Define perinatal asphyxia and hypoxic ischemic encephalopathy (5).  
b. Describe various patterns of brain injury and subsequent likely consequences (5).  
c. Discuss therapeutic options and evidence from controlled clinical trials in management of hypoxic ischemic encephalopathy (10).
6. a. What is hospital acquired infection? (2)  
b. Discuss strategies to prevent antimicrobial resistance? (8)  
c. Discuss strategies to prevent nosocomial infections in newborn in level II NICU? (10)
7. a. What is Kangaroo Mother Care (KMC)? What are components of KMC? (6)  
b. What are benefits of KMC? (8)  
c. Discuss the mechanisms and evidence of role of KMC in alleviation of pain in neonates? (6)

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