

**Neonatology Chapter of Indian Academy of Pediatrics  
Exam for Fellowship in Neonatology for the year 2009**

*Thursday January 14, 2009*

*9 am to 12 pm*

**Theory exam I**

Time allowed: 3 hours

Max marks: 100

Answer any 5 out of 7 questions. Each question carries equal marks

Q. 1 Discuss the role of neuroimaging in the NICU.

Q. 2 Define hypoxic ischemic encephalopathy. Discuss mechanisms of injury, diagnosis and management including neuroprotective strategies.

Q. 3 Define hypoglycemia in the neonate, enumerate the causes and discuss the management of congenital hyperinsulinism.

Q.4 Discuss in brief the following (Any 2)

- a. Timing of cord clamping
- b. Sepsis screen, its purpose and interpretation
- c. Diagnosis and management of NEC

Q. 4 Describe the organization of a High risk Neonatal follow up clinic.

Q. 5 Describe fetal circulation and changes occurring in the circulation during transition period. Discuss persistent pulmonary hypertension of newborn.

Q. 6 Write short notes on (Any 2)

- a. The CONSORT statement.
- b. Evidence based evaluation of Kangaroo mother care.
- c. Blood Component Therapy

Q. 7 What is the current status of steroids in the management of Respiratory Distress Syndrome and Chronic Lung Disease?