FINAL EXAM DECEMBER 2011

NATIONAL BOARD OF EXAMINATIONS

NEONATOLOGY

PAPER-I

NEONAT/D/11/19/I

Time: 3 hoursMax. Marks: 100

Attempt all questions in order. Each question carries 10 marks.

1.	Describe the placental development, and discuss the endocrine and paracrine functions of the placenta.	4+3+3
2.	What is evidence based medicine (EBM)? Describe strength of evidence and quality of evidence. Discuss importance of EBM in relation to neonatal resuscitation.	2+3+5
3.	Describe the development of skin and discuss strategies for epidermal barrier maturation.	4+6
4.	Write a note on retinal development with special emphasis on pathophysiology of Retinopathy of Prematurity (ROP) and discuss the management of ROP.	5+5
5.	Tabulate the ontogenic time table of gut development and describe the neonatal gastrointestinal functions.	4+6
6.	Describe the host defense mechanisms against fungi and discuss the management of fungal sepsis.	6+4
7.	Describe neuronal migration and discuss disorders of neuronal migration.	5+5
8.	Enumerate various modes used in echocardiography. Discuss the role of functional echocardiography in the neonatal intensive care unit.	3+7
9.	What is meant by evaluation of a diagnostic test? Discuss the same in relation of 'Sepsis Screen' in neonates.	3+7
10.	What is Biophysical Profile? Discuss the modalities to assess fetal well being	3+7

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FINAL EXAM DECEMBER 2011 NATIONAL BOARD OF EXAMINATIONS

NEONATOLOGY

PAPER-II

Time : 3 hours Max. Marks : 100

NEONAT/D/11/19/II

Attempt all questions in order. Each question carries 10 marks.

1.	Describe fetal circulation. Discuss the pathophysiology of persistent pulmonary hypertension in newborn.	4+6
2.	Define perinatal asphyxia. Describe the pathophysiology and discuss recent advances in management of an asphyxiated neonate.	2+3+5
3.	Discuss the antenatal markers of chromosomal disorders in fetus.	10
4.	Describe the mechanisms of neonatal lung injury and discuss lung protective strategies in neonatal ventilation	5+5
5.	What is the mechanism of bilirubin brain toxicity? List the clinical features of kernicterus and its MRI findings.	4+4+2
6.	Define intra-uterine growth restriction (IUGR). Discuss clinical assessment of nutrition, and enumerate the short and long term complications associated with IUGR.	2+3+3+2
7.	How would you clinically suspect Inborn Errors of Metabolism (IEM) in a neonate? Describe a stepwise investigative approach to diagnosis of IEM.	4+6
8.	Describe transient disorders of thyroid function in neonates and discuss universal thyroid screening in new-born.	6+4
9.	Discuss the prenatal diagnosis of Congenital Adrenal Hyperplasia (CAH). Enumerate steps of pre and post natal management of CAH.	5+2+3
10.	Discuss the clinical presentation and treatment of gastro- esophageal reflux.	4+6

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FINAL EXAM DECEMBER 2011

1000

NEONATOLOGY

PAPER-III

Time: 3 hoursMax. Marks: 100

NEONAT/D/11/19/III

Attempt all questions in order. Each question carries 10 marks.

1.	Describe levels of Neonatal Care. Discuss regionalization of neonatal care in public health system in India.	4+6
2.	Describe the maturational changes in EEG in preterm and term neonates and discuss the role of cerebral function monitor in clinical practice.	4+3+3
3.	Enumerate the causes and discuss the diagnostic approach to a case of obstructive uropathy.	3+7
4.	Discuss the diagnosis, prevention and management of intra- ventricular hemorrhage in a preterm neonate.	3+3+4
5.	Enumerate components of Janani Shishu Suraksha Karyakram (JSSK) and discuss its role in achieving Millennium Development Goals (MDG).	5+5
6.	Describe assessment scale used for neurobehavioral assessment in newborn and discuss its significance.	6+4
7.	Describe pain pathway. Discuss assessment and management of pain.	3+3+4
8.	What is developmentally supportive care? Discuss the organization of developmentally supportive care in a resource poor setting.	4+6
9.	Discuss challenges in diagnosis and management of Necrotizing Enterocolitis (NEC). Comment on status of probiotics in management–Issues and controversies.	5+5
10.	Discuss issues in enteral feeding of very low birth weight neonates with special reference to nutritional supplements.	5+5

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