

LC 081

FEBRUARY 2013

Sub: Code:1451

D.M –NEONATOLOGY

**Paper – I APPLIED BASIC SCIENCES AS APPLIED TO NEONATOLOGY
AND PERINOTOLOGY:RESEARCH METHODS**

Q.P. Code : 161451

**Time : 3 hours
(180 Min.)**

Maximum : 100 marks

I. Elaborate on:

(2x15marks=30marks)

1. Various modes of Echocardiography useful in neonates and discuss the role of functional echocardiography in neonatal intensive care.
2. Assessment of foetal wellbeing during prenatal and natal period? What are its clinical implications?

II. Write short notes on :

(10x7 marks=70marks)

1. Endocrine functions of placenta
2. Auto regulation of cerebral blood flow in a neonate.
3. Influence of Breast feeding on neonatal brain development
4. Pathophysiology of hypoxic ischemic encephalopathy
5. Calculation of sample size in Medical research?
6. Retinal development and discuss the pathophysiology of Retinopathy of prematurity
7. Types of medication error possible in neonatal practice and its prevention.
8. Mechanism of bilirubin toxicity and its long term sequelae
9. Physiology of pain perception in new born and its management
10. Pharmacokinetics of drugs in preterm infants.

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