

(LN 081)

AUGUST 2018

Sub. Code: 1451

D.M. – NEONATOLOGY

**Paper I – APPLIED BASIC SCIENCES AS APPLIED TO
NEONATOLOGY AND PERINATOLOGY; RESEARCH METHODS**

Q.P.Code: 161451

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the various characteristics of a Diagnostic test. Discuss the utility of Receiver Operating curves and Likelihood ratios in clinical practice.
2. Discuss the pharmacodynamic and pharmacokinetic principles one should know for choosing antibiotics in neonatal sepsis. Explain various mechanisms of antibiotic resistance and ways to counter them.

II. Write notes on:

(10 x 7 = 70)

1. Ethical principles in Resuscitation of Preterm infants.
2. Glucose metabolism in IUGR.
3. Evaluation of stillborn.
4. PDSA cycle in quality improvement.
5. Physiological handicaps in Respiratory system of Neonates.
6. Transport across placental barrier and clinical implications.
7. Autoregulation of Neonatal cerebral circulation.
8. Principles behind methods for assessment of fetal well being.
9. Epidemiology and Pathophysiology of Retinopathy of Prematurity.
10. Amniotic fluid dynamics and its application in practice.
