

(LQ 081)

FEBRUARY 2020

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. What are the various methods available for prenatal genetic diagnosis? Discuss in detail the utility and limitations of each method.
2. What is a systematic review? Enumerate and discuss the steps required in writing a good systematic review.

II. Write notes on:**(10 x 7 = 70)**

1. Pathophysiology of New Bronchopulmonary Dysplasia.
2. Molecular diagnosis of Neonatal sepsis.
3. Regression Analysis.
4. Placental examination – A Neonatologist's tool.
5. Prostaglandin mediated chemical reactions relevant to neonatal practice.
6. Pathophysiology of primary and secondary brain injury in HIE and scope for interventions at each stage.
7. Nested case control study.
8. Basic science behind neuromigrational disorders.
9. Development of skin in newborns and strategies to minimise skin injuries in VLBW infants.
10. Soft markers in fetus in Antenatal Ultrasound.
