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: $(2 \times 15 = 30)$

1. Physiology of transition from fetal to neonatal circulation and pathophysiology of persistent pulmonary hypertension.

2. Control of breathing in neonates and pathogenesis of apnoea of prematurity.

II. Write notes on: $(10 \times 7 = 70)$

- 1. Newer insights into pathophysiology of PVL.
- 2. Management of foetal tachyarrhythmia.
- 3. Cellular mechanisms of antibiotic resistance and strategies for prevention.
- 4. Umbilical artery Doppler in the assessment of foetal growth restriction.
- 5. Adaptive responses to Neonatal hypoglycaemia.
- 6. Development of neonatal skin and its implications.
- 7. Cerebral function monitoring.
- 8. Prenatal work up of foetal hydrops.
- 9. ROC curve.
- 10. Metabolic acid base disorders in a neonate.
