

(LI 135)

APRIL 2016

Sub. Code:2030

**M.D. DEGREE EXAMINATION
BRANCH VII – PAEDIATRICS
PAPER I – APPLIED BASIC SCIENCES IN PAEDIATRICS**

Q.P.Code: 202030

Time: Three Hours

Maximum: 100 Marks

Write notes on:

I. ANATOMY: (4 x 5 = 20)

1. Development of Thyroid gland.
2. Anatomy of facial nerve and its applied anatomy.
3. Development of great arteries of heart and embryological development of Tetralogy of Fallot.
4. Development of spleen and its significance.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Physiological importance of exocrine pancreas.
2. Complement cascade and its significance.
3. Physiology of respiratory failure.
4. Prostaglandins and their uses in children.

III. BIO-CHEMISTRY: (3 x 5 = 15)

1. Hypokalemia and its clinical significance.
2. Ketone bodies and their significance.
3. Essential amino acids.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Inotropes in Pediatric practice.
2. Newer anticonvulsants.
3. Steroid sparing drugs in Nephrotic syndrome.

V. MICROBIOLOGY: (3 x 5 = 15)

1. Diagnosis of leptospirosis.
2. ELISA and its applications.
3. H1N1 infection in children.

VI. PATHOLOGY: (3 x 5 = 15)

1. Chromosomal abnormalities in Acute Lymphoblastic Leukemia.
2. Peripheral smear in Thalassemia major.
3. Disseminated intravascular coagulation.
