

(LL 135)

OCTOBER 2017

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 testis and male external genitalia.
2. Blood supply of internal capsule.
3. Persistent vitellointestinal duct.
4. Chromosomal translocation.

**II. PHYSIOLOGY: (4 x 5 = 20)**

1. Hormones of lactation.
2. Visual pathway.
3. Clinical importance of second heart sound.
4. Plasma osmolality.

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

1. Liver function tests.
2. Phenylketonuria.
3. Vitamin A- functions and requirements.

**IV. PHARMACOLOGY: (3 x 5 = 15)**

1. Fifth generation cephalosporins.
2. Systemic antifungal drugs.
3. Levetiracetam.

**V. MICROBIOLOGY: (3 x 5 = 15)**

1. Ebola virus infection.
2. Newer diagnostic tests for malaria.
3. Stool examination for parasites.

**VI. PATHOLOGY: (3 x 5 = 15)**

1. Renal biopsy in nephrotic syndrome.
2. Red cell distribution width.
3. Pathology in Hirschsprung's disease.

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