

[LQ 135]

NOVEMBER 2020  
(OCTOBER 2020 SESSION)

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. Visual pathway
2. Brachial plexus anatomy and injuries
3. Development of external genitalia with reference to disorders of sexual differentiation
4. Embryology of Tetralogy of Fallot and atrial septal defect

**II. PHYSIOLOGY:**

**(4 x 5 = 20)**

1. Cardiac conduction system with reference to ECG
2. Thyroid hormone synthesis and defects
3. Erythrocyte sedimentation rate
4. Pulmonary function tests

**III. BIO-CHEMISTRY:**

**(3 x 5 = 15)**

1. CSF biochemical changes in various CNS infections
2. Bilirubin metabolism
3. Homocystinuria

**IV. PHARMACOLOGY:**

**(3 x 5 = 15)**

1. Fifth generation cephalosporins
2. Bedaquiline
3. 3% saline

**V. MICROBIOLOGY:**

**(3 x 5 = 15)**

1. Novel Corona virus
2. Stool examination for worm infestations
3. Mechanisms of antibiotic resistance

**VI. PATHOLOGY:**

**(3 x 5 = 15)**

1. Neuroblastoma
2. Red cell indices
3. Procalcitonin

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