

**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. CSF circulation and its clinical importance and diagram of Ventricular system.
2. Bronchopulmonary Segments.
3. Cavernous Sinus.
4. Muscles of Respiration.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Outline Pain Pathway.
2. Physiology of Puberty in Boys and Girls.
3. Oxygenation Index.
4. Pathophysiology of Cyanotic Spell.

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

1. Neonatal Thyroid Screening.
2. Define Anion Gap and its Utility.
3. Vitamin E.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Recombinant Human Erythropoietin.
2. Treatment of Persistent Constipation.
3. Biologicals in pediatric clinical practice.

V. MICROBIOLOGY: (3 x 5 = 15)

1. How to investigate a child suspected to have T Cell Immunity Disorder?
2. Herd Immunity.
3. Laboratory Diagnosis of AIDS.

VI. PATHOLOGY: (3 x 5 = 15)

1. Pathophysiology of Bronchial Asthma.
2. Peripheral Smear Study In a) Thalassemia Major, b) Lead Poisoning, c) Megaloblastic Anaemia, d) Chronic Renal Failure, e) Malaria.
3. Aschoff's Nodules.
