# 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:  $(4 \times 5 = 20)$ 

- 1. Formation and fate of neural tube.
- 2. Base of Heart.
- 3. Development of kidney and its anomales in shape and position.
- 4. Temporary and Permanent teething.

# II. PHYSIOLOGY: $(4 \times 5 = 20)$

- 1. Prostaglandins.
- 2. Function of platelets and tests for platelets deficiency.
- 3. Maintanance of Plasma osmolarity.
- 4. Stretch reflex.

### **III.BIO-CHEMISTRY:**

 $(3 \times 5 = 15)$ 

- 1. Phenylketonuria.
- 2. Serum amino acid pattern in protein-energy malnutrition.
- 3. Urine Screening Test.

# IV. PHARMACOLOGY:

 $(3 \times 5 = 15)$ 

- 1. Beta-lactamase inhibitors.
- 2. Newer antiepileptic drugs.
- 3. Low molecular heparin and its uses.

### **V. MICROBIOLOGY:**

 $(3 \times 5 = 15)$ 

- 1. Chikungunya virus.
- 2. Serologicals markers of hepatitis B.
- 3. Life cycle of Malaria.

# VI. PATHOLOGY:

 $(3 \times 5 = 15)$ 

- 1. Non-hodgkin's lymphoma.
- 2. Histopathology of labor pneumonia.
- 3. Pathogenesis of septic shock.

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