

POST GRADUATE EXAMINATION, JANUARY-2025

**MD PEDIATRICS
(PAPER ONE)**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. With the help of relevant diagram describe the blood circulation of brain, and give its clinical applied in cases of stroke. Also give causes of strokes in children. **(20)**

Q. 2. Describe Hematopoiesis. Discuss various fetal hemoglobins and Hematopoesis in fetal life? What are the manifestations of aberration in formation of hemoglobin? **(20)**

Q. 3. Describe briefly: **(3 x 10 = 30)**

- a. Pathophysiology of various manifestations of CNS tuberculosis
- b. Pathophysiology of Cynotic spells in TOF and role of various drugs used for its management
- c. Theories about mechanism of oedema in Nephrotic syndrome

Q. 4. Write short notes on: **(5 x 6 = 30)**

- a. Fetal circulation
- b. Pupillary reflex and its clinical applied
- c. Complications of long term high doses of steroid therapy
- d. Mechanism of wheeze v/s stridor
- e. Role of Tacrolimus in pediatric diseases

X

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**MD PEDIATRICS
(PAPER TWO)**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Define Persistent Pulmonary hypertension of Newborn (PPHN). Give pathophysiology, clinical manifestations and management of PPHN. **(20)**

Q. 2. What is Meconium Aspiration Syndrome? Describe its pathophysiology and Management. **(20)**

Q. 3. Describe briefly: **(3 x 10 = 30)**

- a. Approach to a newborn with Hypoglycemia
- b. Bronchopulmonary Dysplasia
- c. Tracheo-oesophageal fistula

Q. 4. Write short notes on: **(5 x 6 = 30)**

- a. Galactossemia
- b. IMNCI
- c. Surfactant replacement therapy
- d. Kangaroo mother care
- e. Antenatal diagnosis of Down's syndrome

X

POST GRADUATE EXAMINATION, JANUARY-2025**MD PEDIATRICS
(PAPER THREE)****[Time allotted: Three hours]****[Max Marks: 100]**

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe the etiopathogenesis, classification, risk stratification and basis of modalities used for management of childhood leukaemia. (20)
- Q. 2.** Discuss the various risk factors, causes, clinical features and complications of Pyogenic meningitis in children. Give the management of for management of 3 year old boy with pyogenic meningitis. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Congestive Heart failure
 - b. Management of diabetic ketoacidosis
 - c. Severe Dengue
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Bronchiolitis
 - b. Tricuspid atresia
 - c. Fragile X syndrome
 - d. Neurocutaneous markers
 - e. Management of infantile spasm

POST GRADUATE EXAMINATION, JANUARY-2025**MD PEDIATRICS
(PAPER FOUR)****[Time allotted: Three hours]****[Max Marks: 100]**

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. What is 'Parenteral nutrition'? Describe indications and complications of Parenteral nutrition. Calculate and describe how you will administer parenteral nutrition to a 2 year old child weighing 10 kg.

(20)

Q. 2. Write mechanism of action, indications, monitoring and side effects of Therapeutic hypothermia.

(20)

Q. 3. Describe briefly:

(3 x 10 = 30)

- a. Steroid resistant Nephrotic syndrome
- b. Gene therapy
- c. Extracorporeal membrane oxygenation

Q. 4. Write short notes on:

(5 x 6 = 30)

- a. Prebiotics and Probiotics.
- b. Lung ultrasound in Childhood pneumonia
- c. Renal replacement therapy
- d. Recent advances in Duchenne muscular dystrophy
- e. Laryngeal mask airway

X