

POST GRADUATE EXAMINATION, APRIL/MAY-2022

MD PEDIATRICS

(PAPER ONE)

BASIC SCIENCES AS APPLIED TO PEDIATRICS

[Time allowed: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate your answer with suitable diagrams/ algorithms / tables.

- Q. 1.** Discuss “Coagulation cascade” and laboratory evaluation of haemostasis. **(20)**
- Q. 2.** Draw “bronchopulmonary segments”. Discuss the clinical features and management of a child with foreign body in right main bronchus. **(20)**
- Q. 3. Describe briefly:** **(3 x 10 = 30)**
- a. Fundus Examination in children
 - b. Autoimmune vasculitis
 - c. Draw cross section of Spinal cord at **D10** level.
- Q. 4. Write short notes on:** **(5 x 6 = 30)**
- a. 21 – hydroxylase deficiency
 - b. Gene therapy
 - c. Conjugate vaccines
 - d. Role of Zinc in Pediatric practice
 - e. Congenital dislocation of hip

X

POST GRADUATE EXAMINATION, APRIL/MAY-2022

MD PEDIATRICS
(PAPER TWO)

NEONATOLOGY AND COMMUNITY PEDIATRICS

[Time allowed: Three hours]**[Max Marks: 100]**

Note: Attempt all questions.
Illustrate your answer with suitable diagrams / tables / algorithms.

- Q. 1.** Describe problems of a neonate born to a Diabetic mother. Write management of hypoglycemia in such babies. **(20)**
- Q. 2.** Describe social, cultural and medical factors responsible for birth of a low birth weight baby. Mention strategies to prevent birth of a low birth weight (LBW) neonate. **(20)**
- Q. 3. Describe briefly:** **(3 x 10 = 30)**
- Hematological problems in newborn
 - Neonatal acute kidney injury
 - Nitrous oxide therapy
- Q. 4. Write short notes on:** **(5 x 6 = 30)**
- Bronchopulmonary dysplasia
 - Undesirable effects of media on children.
 - Care of an infant born to a Covid -19 positive mother.
 - Milking of umbilical cord
 - Your role in Child adoption

X

POST GRADUATE EXAMINATION, APRIL/MAY-2022

**MD PEDIATRICS
(PAPER THREE)**

GENERAL PEDIATRICS, SYSTEMIC PEDIATRICS AND PEDIATRIC EMERGENCIES

[Time allowed: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate your answer with suitable diagrams / tables / algorithms

Q. 1. Discuss the pathophysiology, clinical features and management of a case of viral meningitis. **(20)**

Q. 2. Describe the aetiology, pathogenesis, clinical manifestations and management of a case of Kawasaki disease. **(20)**

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

- a. Severe acute malnutrition (SAM)
- b. Scrub typhus
- c. Multi-System Inflammatory Syndrome in children

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

- a. Esophageal atresia with tracheo-esophageal fistula
- b. Fabry's disease
- c. Folate deficiency
- d. Vesico – ureteral reflux
- e. Renal Tubular Acidosis type- I

X

POST GRADUATE EXAMINATION, APRIL/MAY-2022**MD PEDIATRICS****(PAPER FOUR)****RECENT ADVANCES IN PEDIATRICS****[Time allowed: Three hours]****[Max Marks: 100]**

Note: Answer all questions
Illustrate your answer with suitable diagrams / algorithms / tables.

Q. 1. Write in detail about recent concept of 'Therapeutic cooling' in Neonates with Hypoxic Ischemic Encephalopathy (HIE). Discuss its advantages and disadvantages. **(20)**

Q. 2. Discuss in detail about epidemiology, etiopathogenesis, and management of COVID-19 infection in paediatric age group. **(20)**

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

- a. Role of ECMO in Meconium Aspiration Syndrome (MAS)
- b. Diagnostic challenges in celiac disease
- c. Genetic studies in leukemias

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

- a. SPECT and PET scan
- b. Shift in strategies for polio vaccination
- c. High flow nasal oxygen (HFNO)
- d. Liquid biopsy
- e. Levetiracetam

X
