

POST GRADUATE EXAMINATION, APRIL - 2019

**MD PEDIATRICS
(PAPER ONE)**

BASIC SCIENCES AS APPLIED TO PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Draw spirogram and label various lung volumes and capacities. Also describe role of spirometry in clinical practice. **(20)**
- Q. 2.** Describe pathophysiology of cyanotic spells and write in brief its management. **(20)**
- Q. 3. Describe briefly:** **(3 x 10 = 30)**
- a. Visual pathway and clinical manifestations of lesions at various sites of this pathway
 - b. Development of ventricular septum
 - c. Role of kidney in sodium and potassium regulation
- Q. 4. Write short notes on:** **(5 x 6 = 30)**
- a. Embryonic development of neural tube (Primary Neurulation)
 - b. Gohn's complex
 - c. Ring enhancing lesions in CECT brain
 - d. Hormones and child's stature
 - e. Conjugate vaccines

X

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**MD PEDIATRICS
(PAPER TWO)**

NEONATOLOGY AND COMMUNITY PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Enumerate various Government initiatives for adolescent health. Discuss in detail about various aspects of RMNCH+A. (20)
- Q. 2.** Write in tabular form differential diagnosis of a newborn with respiratory distress. Write pathophysiology, clinical features and management of a neonate with meconium aspiration syndrome. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Infant of diabetic mother
 - b. Monitoring fetal wellbeing in various trimesters
 - c. Challenges of preterm babies and their management
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. IMNCI
 - b. Polycythemia in newborn
 - c. Hearing loss in NICU graduates
 - d. Role of amplitude integrated EEG (aEEG) in NICU
 - e. Monitoring growth of a preterm baby

X

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**MD PEDIATRICS
(PAPER THREE)**

GENERAL PEDIATRICS, SYSTEMIC PEDIATRICS AND PEDIATRIC EMERGENCIES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Define stridor. What are the causes of stridor in children? Give the approach and management of a child with stridor. **(20)**
- Q. 2.** Discuss etiology, pathophysiology and management of extra-hepatic portal hypertension (EHPH). **(20)**
- Q. 3. Describe briefly:** **(3 x 10 = 30)**
- a. Differential diagnosis of a limping child
 - b. Autism Spectrum Disorders (ASD)
 - c. Clinical & serological profile of pediatric dengue
- Q. 4. Write short notes on:** **(5 x 6 = 30)**
- a. Endoscopy in pediatric patients
 - b. Scorpion bite
 - c. Nutritional guidelines for children and adolescents with Type I diabetes mellitus
 - d. Adjuvant steroid therapy in pediatric septic shock
 - e. Recurrent urinary tract infection.

X

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MD PEDIATRICS
(PAPER FOUR)

RECENT ADVANCES IN PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss the classification of vasculitis in children. Describe the recent advances in the management of Kawasaki disease. (20)

Q. 2. Write the causes and clinical features of acute liver failure. Discuss its management. Describe the indications, types and recent advances in liver transplantation. (20)

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

- a. Benign Rolandic epilepsy
- b. Non-invasive ventilation in children
- c. Long term health related issues in children born as low birth weight

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

- a. Inhibitors in hemophilia
- b. Renal replacement therapy
- c. Gene therapy
- d. Vitamin A supplementation in the prevention of childhood illnesses
- e. Recent recommendations on polio vaccination

X