

**POST GRADUATE EXAMINATION, MAY- 2020**

**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.** Describe metabolism of vitamin D. Enumerate causes of vitamin D resistant rickets and discuss their management. **(20)**
- Q. 2.** Describe development of female genitalia. Classify disorders of sexual differentiation (DSD) in female genotype and discuss their management. **(20)**
- Q. 3. Describe briefly:** **(3 x 10 = 30)**
- a. Pathophysiology of septic shock and principles of its management
  - b. Pulmonary function tests in restrictive lung disease
  - c. Role of kidney in acid base balance
- Q. 4. Write short notes on:** **(5 x 6 = 30)**
- a. Odds ratio, confidence interval and relative risk
  - b. Patterns of genetic inheritance
  - c. Indications and mode of oxygen therapy
  - d. Principles of drug metabolism in children
  - e. Anti-epileptics for difficult to treat seizures

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**POST GRADUATE EXAMINATION, MAY- 2020**

**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 causes of seizures in a 7 day old neonate. Discuss management of resistant hypoglycemia during neonatal period. **(20)**

**Q. 2.** Outline the problem of substance abuse in adolescent period. How should one address this issue in different settings? **(20)**

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

- a. Enumerate and outline management of life style disorders
- b. Recent RNTCP guidelines for pediatric tuberculosis
- c. Investigation of adverse events following immunization in the community

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

- a. Addressing feeding of very low birth weight neonate
- b. Management of ductus dependent lesions after birth
- c. Problems of twin gestation
- d. Human milk banking
- e. Evaluation of a sexually abused child

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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.** Enumerate causes of chronic kidney diseases as per age in children. Outline the compositions and their management. **(20)**

**Q. 2.** Detail the differential diagnosis, evaluation and management of a child with acute flaccid paralysis. **(20)**

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

- a. Causes and management of hemoptysis in children
- b. Recurrent abdominal pain
- c. Long term management of  $\beta$  thalassemia major

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

- a. Atopic dermatitis in infancy
- b. Hearing assessment in children
- c. Management of congenital dislocation of hip
- d. Refractory errors in children
- e. Management of a 2 year old with 60% burn injuries

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**MD PEDIATRICS**

**(PAPER FOUR)**

**RECENT ADVANCES IN PEDIATRICS**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

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**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Recent advances in diagnosis and management of systemic lupus erythematosus in children. (20)

**Q. 2.** Recent guidelines for management of diabetic ketoacidosis. Discuss management of type-I child after discharge. (20)

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

- a. Screening tests for global developmental delay
- b. Newborn screening programs
- c. GINA guidelines for management of acute asthma in children

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

- a. Biomarkers of acute kidney injury in children
- b. Radiation injury
- c. Therapeutic diets available and indications
- d. Fetal therapy
- e. Recent guidelines of antiretroviral therapy in children

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