MD[ Pediatrics ]

BF/2015/11

# Basic Sciences as related to Pediatrics

**[Paper-I]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. Discuss in short abnormalities of B cell development and differentiation. [10]

2. Discuss in short Vit-D metabolism in children using a line diagram. [10]

3. Pathogenesis of Septic shock. [10]

4. Discuss briefly modes of inheritance of genetic disorders. [10]

5. Discuss briefly mechanisms of antimicrobial resistance among gram negative bacteria. [10]

6. Define & compare: [10]

a. Prevalence v/s incidence b. Risk ratio v/s odds ratio.

7. Describe pathophysiology of coma in children. [10]

8. Discuss the mechanism of drug resistance to anti malarials. [10]

9. Discuss briefly the changes in fetal circulation after birth and persistent fetal circulation. [10]

10. Enumerate social milestones during first 2 year of life. Mention the age range at which these are normally seen. [10]

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# Principles and Practice of Pediatrics

**[Paper-II]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. Discuss the clinical approach to the diagnosis of dysmorphic syndrome. [10]

2. Pathophysiology of protein energy malnutrition. [10]

3. Discuss developmental anomalies of lung. [10]

4. Discuss endocrine disorders during adolescence. [10]

5. Discuss the clinical features and management of glycogen storage disorders. [10]

6. Discuss adverse reactions and contraindications of Immunizaiton. [10]

7. Discuss the defects of antibody production. Write briefly about clinical features and lab findings of X-linked agammaglobulinemia. [10]

8. Discuss the approach to Newborn screening in India. [10]

9. Discuss the role of upper GI endoscopy and colonoscopy in Paediatric disorders.

[10]

10 Discuss the role of radiological imaging tests in childhood neurological disorders. [10]

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Preventive & Social aspects of Pediatrics and Diseases of Neonates & Infants

**[Paper-III]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. Define the principles of immunology and discuss the vaccination of a 1700 gm baby born at time. [10]

2. Explain the composition and functions of surfactant and discuss the indications of replacement in term and preterm babies. [10]

3. Compare whole body vs. selective head cooling in newborn and its role in the prevention of HIE. [10]

4. Discuss the patho-physiology, epidemiology and etiology of late onset sepsis and measures for prevention. [10]

5. Discuss the importance of newborn screening and its feasibility in Indian Context with special reference to recent trends in the management of Congenital Hypothyroidism (CH). [10]

6. Describe the various types of immunoglobulins and comment on its use in Neonatal and Paediatric medicine. [10]

7. Discuss the Human Milk banking and explain the provisions of Infant Milk Substitute (IMS) Act. [10]

8. Common medical problems of newborns and infants and outline their brief management. [10]

9. WHO child growth standards and identification and management of Severe Acute Malnutrition (SAM) in infants. [10]

10. Define Perinatal Mortality Rate (PMR) and discuss the comprehensive strategies in your state for reduction of Infant Mortality Rate (IMR). [10]

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# Recent advances in Pediatrics

**[Paper-IV]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams.

1. Discuss briefly management of a 6 month old uncircumcised male child with first episode of complicated UTI. [10]

2. Write briefly management of retinoblastoma. [10]

3. Indications & complications of bubble CPAP in neonatal respiratory distress. [10]

4. Role of acute phase reactants for the diagnosis of neonatal sepsis. [10]

5. Write short note on long term follow-up of a child with ambiguous genitalia. [10]

6. Write short note on utility of pediatric assessment triangle (PAT). [10]

7. Management of frequent relapsing nephrotic syndrome. [10]

8. Discuss briefly evaluation, management & follow-up of a 3 day old child with PSVT. [10]

9. Write short note on indications of VATS & fibrinolysis in childhood empyema. [10]

10. Write short note on recent advances in the management of variceal gastric bleeding. [10]

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