

PAEDIATRICS

PAPER-I

Time : 3 hours
Max. Marks : 100

PED/D/11/31/I

Attempt all questions in order.
Each question carries 10 marks.

1. Describe the diagnostic approach and management of a six year old child presenting with purpuric rash and pedal edema following an episode of acute diarrhoea. 4+6
2. Enumerate the common causes of pyrexia of unknown origin in a 5 year old child. Discuss diagnostic approach to fever with rash. 4+6
3. What is atopic dermatitis? Describe the clinical features and differential diagnosis of atopic dermatitis. 2+5+3
4. Define septic shock. Describe etio-pathogenesis and clinical features in a 15 month old child presenting with septic shock. 2+4+4
5. Write short notes on:- 5+5
 - a. Zinc supplementation – when and how?
 - b. Laboratory diagnosis of malaria.
6. Define hypoglycemia. Describe clinical features and management of hypoglycemia in newborn and children. 1+4+5
7. Enlist the common opportunistic infections in HIV infected children. Describe the clinical features, diagnosis and management of herpes simplex infection in HIV infected children. 3+2+2+3
8. Describe clinical manifestations, diagnosis and management of Neuro-tuberculosis. 3+4+3
9. Provide classification of burns injury. Describe the clinical manifestation of electrical burns. Outline emergency management of a child with 20% burns. 2+3+5
10. Discuss categorization of chronic childhood asthma. Discuss step-wise management of chronic asthma in children. 3+7

PAEDIATRICS

PAPER- II

Time : 3 hours
Max. Marks : 100

PED/D/11/31/II

Attempt all questions in order.
Each question carries 10 marks.

1. Describe Tanner's Sexual Maturity Rating (pubertal staging) in boys based on (a) Genitalia and (b) Pubic hair development. 5+5
2. Discuss the justification for the addition of neonatal component to WHO generic IMCI programme for making IMNCI strategy. What are the key features of this strategy? 5+5
3. Enumerate the etiology of fetal or intrauterine growth retardation (IUGR). Describe the screening and diagnosis of IUGR. 3+4+3
4. Name the micro nutrients required for various body functions. Discuss briefly their dietary sources and the effects of deficiency of mineral micronutrients (trace elements). 3+2+5
5. Describe in detail the physical growth and development in all domains from birth till completion of first year. 5+5
6. Write the components, prerequisites and benefits of Kangaroo-Mother-Care (KMC). 5+2+3
7. Critically describe the role of various treatment modalities for treating neonatal unconjugated hyperbilirubinemia. 10
8. What is BFHI (Baby Friendly Hospital Initiative)? Mention its aims & objectives, steps, benefits and assessment of baby friendly hospitals. 2+2+2+2+2
9. What is developmental delay? Describe different tools used for screening of developmental delay. 3+7
10. Define child abuse and neglect. Discuss various clinical manifestations, diagnostic work up and management of physical abuse. 2+3+2+3

PAEDIATRICS

PAPER- III

Time : 3 hours
Max. Marks : 100

PED/D/11/31/III

Attempt all questions in order.
Each question carries 10 marks.

1. How will you classify childhood Histiocytosis? Describe the diagnostic criteria, clinical manifestation and treatment for hemophagocytic lymphohistiocytosis. What are the infections associated with it? 2+2+2+2+2
2. What are the biochemical criteria for the diagnosis of Diabetic Ketoacidosis (DKA)? What are the goals of therapy? How will you manage a child with DKA? 3+3+4
3. Discuss about the clinical features, types, diagnosis and management of Myasthenia Gravis. 3+2+2+3
4. A seven year old girl is admitted with pain and swelling of right knee and left ankle joint of two weeks duration. Enumerate the likely causes. Discuss the differential diagnosis highlighting important pointers in history, examination and investigations. 2+8
5. Discuss briefly the diagnostic features and management of Pervasive Developmental Disorders /Autistic Spectrum Disorders. 4+6
6. Enumerate the causes of stroke in children. Discuss the diagnostic approach for managing a child with stroke. 3+7
7. Define Brain Death. Write age specific criteria for Brain Death in children. 2+8
8. Discuss differential diagnosis and management of a child with recurrent pneumonia. 4+6
9. Tabulate the various newer vaccines available to prevent respiratory diseases in children, with their types, dosage schedule, route, important side effects and efficacy. 10
10. Discuss the pathology, clinical manifestations, diagnosis and treatment of infantile polycystic kidney. 2+2+3+3

PAEDIATRICS

PAPER- IV

PED/D/11/31/IV

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

1. Describe the types of diarrhoea with examples. 5+5
Discuss their pathophysiological mechanisms.
2. Define tumour lysis syndrome. Describe the pathophysiology of tumour lysis syndrome. How will you prevent occurrence of tumour lysis syndrome? 2+4+4
3. Describe normal sexual differentiation in fetus. What is intersex? 2+2+6
Describe etiological classification of Disorders of Sex Development (DSD).
4. Describe clinical, laboratory and radiologic evaluation of possible liver dysfunction in children. 3+4+3
5. What is Evidence Based Medicine? How are the guidelines based on Evidence Based Medicine developed? How are the recommendation graded for the level of evidence? 2+4+4
6. Describe briefly cerebro-spinal fluid formation, circulation, absorption and enumerate causes of hydrocephalus. 3+2+2+3
7. Define pancytopenia. Enumerate common causes in children. How will you assess severity of acquired aplastic anemia in children? 2+3+5
8. Describe location, structure & function of cilia in respiratory tract. Discuss the clinical presentation and management of primary ciliary dyskinesia? 3+7
9. Enumerate the causes, and discuss the types, pathogenesis and evaluation of ascites in children. 2+2+3+3
10. What are mitochondrial genes? How are they transmitted? Briefly discuss diseases transmitted by them? 2+2+6
