

PEDIATRICS

PAPER – I

PED/D/10/31/I

Time : 3 hours
Max. Marks : 100

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

- 1 Write the common causes and differential diagnosis of gross symptomatic hematuria. Provide an algorithm for its laboratory and radiological evaluation. 2+2+6
- 2 Write the characteristic features of febrile seizures in children. Enumerate the differentiating points for atypical febrile seizure. Outline the indications and regime for continuous prophylaxis in febrile seizures. 2+2+3+3
- 3 Define acute bronchiolitis. Describe its etiopathogenesis and characteristic features. Outline the essential steps in management of bronchiolitis. 2+2+2+4
- 4 Tabulate the classification of Juvenile Idiopathic Arthritis and state principles of its treatment. 4+6
- 5 Enumerate sources of lead poisoning. Outline the mechanism of toxicity and clinical features of lead poisoning. 3+3+4
- 6 Outline the management of dog bite in a four year old child. 10
- 7 Describe the types of hearing loss in children. Enumerate the causes of hearing loss in children. 4+6
- 8 Define hyponatremia. Enumerate the etiology of hyponatremia. Describe the management of hypovolemic hyponatremia. 2+3+5
- 9 Outline the 10 steps of management of severe malnutrition, as per WHO guidelines, in appropriate sequence. 10
- 10 Discuss the management of acute diarrhea with particular reference to low osmolarity ORS, zinc, probiotics and antibiotics. 3+2+3+2

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PAPER – II

Time : 3 hours
Max. Marks : 100

PED/D/10/31/II

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

- 1 Outline the fine motor milestones along with their normal age of achievement in sequence attained between birth and 5 years of age. 10
- 2 Define failure to thrive and tabulate its causes. Outline the approach to manage a child with failure to thrive. 2+3+5
- 3 Discuss the approach to diagnosis of Persistent Pulmonary Hypertension of Newborn (PPHN). Outline the available modalities of management, highlighting their key features, in a tabular format. 4+6
- 4 Enumerate functions of vitamin A in human body. Tabulate the WHO classification of vitamin A deficiency. Outline the treatment schedule for managing Xerophthalmia in children. 2+3+5
- 5 Outline the risk factors, pathophysiology and principles of management of intraventricular hemorrhage in preterm neonates. 3+3+4
- 6 Discuss the principles of care of the skin in neonates. Outline the role of touch and massage therapy in newborn infants. 4+3+3
- 7 Define Under-5 mortality rate. Comment on its current status and etiology in India. Outline important strategies /programs undertaken by Govt. of India to improve Under-5 child survival. 2+2+2+4
- 8 Provide algorithms for case-detection and treatment for a child with fever, suspected to have malaria, as per National Vector-borne Disease Control Program: 5+5
 - a. In an area where microscopy results are available within 24 hours; and
 - b. In an area where microscopy results are not available within 24 hours.
- 9 Define complementary feeding. Outline the attributes of complementary foods. Enumerate the recommendations on complementary feeding, as per the National Guidelines on Infant and Young Child Feeding (IYCF). 2+2+6
- 10 Discuss the pathophysiology, classification and diagnostic features of necrotizing enterocolitis. 4+3+3

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PAPER – III

Time : 3 hours

Max. Marks : 100

PED/D/10/31/III

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

- 1 Enumerate the complications of acute post-streptococcal glomerulonephritis. Describe their management in brief. 3+7
- 2 Outline the diagnostic criteria of diabetes insipidus. Discuss the management of nephrogenic diabetes insipidus. 4+6
- 3 Enumerate the causes and outline the characteristics and treatment of Supraventricular Tachycardia (SVT) in an infant. 3+3+4
- 4 Define myoclonic epilepsy. Discuss in brief the characteristic features of different types of myoclonic epilepsies, with onset in infancy. 2+8
- 5 Outline the clinical features, radiological changes, diagnosis and treatment of nutritional vitamin D deficiency rickets. 2+2+2+4
- 6 Discuss the clinical features, diagnosis and management of Developmental Dysplasia of Hip (DDH). 3+4+3
- 7 Discuss evaluation and management of an 8 year old male with primary nocturnal enuresis. 4+6
- 8 Describe the characteristic changes observed in fundus examination of a child with
 - i. Chronic hypertension;
 - ii. Acute lymphoblastic leukemia;
 - iii. Longstanding diabetes mellitus4+3+3
- 9 Outline the characteristic clinical features of 'erythema multiforme' and 'Stevens-Johnson Syndrome'. Enumerate the principles of management of Stevens - Johnson syndrome. 4+3+3
- 10 Outline the management of an 8-year old child with acute liver cell failure and hepatic encephalopathy. 10

PEDIATRICS

PAPER – IV

Time : 3 hours
Max. Marks : 100

PED/D/10/31/IV

Attempt all questions in order.
Each question carries 10 marks

- 1 Enumerate the hormones secreted by anterior pituitary and list the factors stimulating and inhibiting secretion of growth hormone. 3+7
- 2 Discuss the etiology, pathogenesis and diagnostic workup of acute autoimmune hemolytic anemia. 3+3+4
- 3 Define and explain sensitivity, specificity, positive predictive value and negative predictive value of a diagnostic test. 2.5X4
- 4 Outline the normal bilirubin metabolism. Outline the principle of phototherapy for treatment of neonatal jaundice. List factors that influence the efficacy of phototherapy. 4+3+3
- 5 Discuss the lung function abnormalities in severe asthma. What is the role of lung function evaluation in management of asthma in children? 6+4
- 6 Describe the etiology, pathogenesis, diagnosis and treatment of antibiotic associated diarrhea. 1+2+3+4
- 7 Enlist the functions of pancreas. Outline the pancreatic function tests and their implications in pediatric practice. 4+6
- 8 Discuss the pathophysiology of hyaline membrane disease in premature newborns. 10
- 9 Write short notes on the following:
 - a. Grading of vesico-ureteric reflux and indications of surgical intervention in children with vesico-ureteric reflux. 3+2
 - b. Peripheral smear findings in iron deficiency and B₁₂ deficiency anemia. 2.5+2.5
- 10 Describe in brief the diseases in which IVIG is used for treatment. Write the dosage, administration and side effects of IVIG. 5+2+1+2