

PAEDIATRICS

PAPER – I

PED/J/13/31/I

Time : 3 hours

Max. Marks : 100

IMPORTANT INSTRUCTIONS

- This question paper consists of 10 questions divided into Part 'A' and Part 'B', each part containing 5 questions.
- Answers to questions of Part 'A' and Part 'B' are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.
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PART A

1. Enlist the clinical and anthropometric criteria for diagnosis of Severe Acute Malnutrition (SAM). Discuss the principles of management of SAM in an 18 months old baby who also has watery diarrhea. 3+7
2. Briefly discuss the pulmonary disorders seen in children with HIV/AIDs. 10
3. Define Juvenile Idiopathic Arthritis (JIA). Outline the classification of JIA. Discuss the mimickers of rheumatic diseases in children. 2+4+4
4. Discuss the recent guidelines for diagnosis and management of childhood tuberculosis. 10
5. Outline and discuss the diagnosis and management of organophosphorus poisoning. 4+6

P.T.O

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PAPER – I

Please read carefully the important instructions mentioned on Page '1'

PART B

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|-----|---|---------|
| 6. | List the WHO criteria to diagnose severe malaria. Discuss the management of a child with cerebral malaria. | 4+6 |
| 7. | Discuss the pathogenesis, clinical presentations, diagnosis and treatment of Wilson's disease. | 2+3+3+2 |
| 8. | Define short stature. Outline the approach to clinical evaluation and management of a child with short stature. | 2+8 |
| 9. | Write brief notes on:
a. Newer antiepileptic drugs
b. Acute demyelinating encephalomyelitis | 5+5 |
| 10. | Outline the etiology of Iron deficiency in children. Describe the clinical features and approach to diagnosis of a child suspected to be having nutritional anemia. | 3+(2+5) |

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PAPER – II

PED/J/13/31/II

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PART A

1. Outline the goals of Baby Friendly Hospital Initiative (BFHI). Enumerate ten steps to successful breast feeding. Mention contraindications to breast feeding. 2+5+3
2. Write brief notes on: 5+5
 - a. Management of neonatal apnea
 - b. Trophic feeding
3. Outline and discuss the strategies to prevent lung injury and bronchopulmonary dysplasia in a preterm baby. 10
4. Describe the advantages and methods of giving Kangaroo Mother Care (KMC). Enlist metabolic consequences of hypothermia. (4+4)+2
5. Write short notes on: 5+5
 - a. Antenatal screening for Down syndrome
 - b. Immediate and late problems due to low birth weight

P.T.O

PAEDIATRICS

PAPER – II

Please read carefully the important instructions mentioned on Page '1'

PART B

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|-----|---|-----|
| 6. | Write short notes on: | 5+5 |
| | a. Role of pediatrician in adoption of a child. | |
| | b. Principles of sleep hygiene in children. | |
| 7. | Discuss attributes, complications and monitoring of total parenteral nutrition in a newborn. | 10 |
| 8. | Briefly outline the following: | 5+5 |
| | a. Tips on parental guidance for computer and internet usage by children. | |
| | b. Salient differences between the National and IAP Immunization schedule. | |
| 9. | Outline and discuss various strategies to manage hyperbilirubinemia in newborns. | 10 |
| 10. | Define developmental delay and developmental dissociation. Outline the screening and definitive tests for diagnosis of developmental delay. | 5+5 |

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PAPER – III

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PART A

1. Discuss the modes of transmission of hepatotropic viral infections. 2+(3+3+2)
Outline the clinical features, diagnosis and treatment of hepatitis B infection in children.
2. Outline the clinical approach to diagnosis of a child with: 5+5
 - a. Short duration / acute pain abdomen; and
 - b. Long duration / recurrent pain abdomen
3. Describe the hemodynamics and clinical features of tricuspid atresia in a (3+3)+(2+2)
neonate. Outline the expected findings on ECG and chest X-ray.
4. A 3 year old child is brought with history of acute dysentery around 10 3+4+3
days back. Now the child developed pallor with oliguria. Discuss the differential diagnosis, investigative approach and treatment of this child.
5. Discuss the treatment options for acute ITP in a 14 year old girl child. 10

P.T.O

PAEDIATRICS

PAPER – III

Please read carefully the important instructions mentioned on Page '1'

PART B

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|-----|--|---------|
| 6. | Discuss differential diagnosis of a floppy infant. Write a short note on clinical and laboratory characteristics of Werdnig-Hoffman disease. | 4+(3+3) |
| 7. | Outline the long term complications of thalassemia major. How will you monitor for such complications in a child with thalassemia major? | 5+5 |
| 8. | Describe the pathogenesis, clinical features and management of scorpion sting. | 3+3+4 |
| 9. | Discuss in brief etiopathogenesis, clinical features and treatment of seborrheic dermatitis in a neonate. | 3+4+3 |
| 10. | Define hypocalcemia. Enumerate hormones affecting calcium balance in the body. Describe their respective roles in calcium homeostasis. | 2+3+5 |

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PAPER – IV

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PART A

1. Enumerate the factors associated with prematurity and low birth weight. Discuss the potential pathways by which infection plays a role in premature delivery. 4+6
2. Discuss the recent changes in guidelines for resuscitation of new born and older children with the rationale for the change. 10
3. Discuss the pathophysiology of septic shock. Describe the International consensus definition for pediatric sepsis. 5+5
4. Outline the Duke criteria for diagnosis of bacterial endocarditis. Discuss its application in clinical setting. 6+4
5. Enumerate classic and non-classic forms of genetic inheritance. Discuss in brief the characteristics of autosomal recessive inheritance. Illustrate with a pedigree chart. 5+3+2

P.T.O

PAEDIATRICS

PAPER – IV

Please read carefully the important instructions mentioned on Page '1'

PART B

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|-----|--|-------|
| 6. | Write short notes on: | 5+5 |
| | a. Paediatric RIFLE criteria for acute kidney injury. | |
| | b. Urinary indices in acute renal failure. | |
| 7. | What are the fluid, metabolic and biochemical changes in a child with severe dengue? Discuss the underlying pathophysiology. | 10 |
| 8. | Discuss the principles of safe and stable transport of a sick newborn. | 10 |
| 9. | Classify respiratory failure in children. List the modes of assisted ventilation and its indications. | 6+4 |
| 10. | Define the following: | 2 x 5 |
| | a. Herd immunity | |
| | b. Herd effect | |
| | c. Vaccine immunogenicity | |
| | d. Vaccine efficacy; and | |
| | e. Vaccine effectiveness | |
