

Reg. No.									
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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (PAEDIATRICS) DEGREE EXAMINATION – JULY 2025**  
**PAPER I**

Wednesday, July 09, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Use diagrams and flow charts if necessary**

✍ **Short essay questions**

1. Discuss the physiology of CSF formation and circulation. Describe the etiology and treatment of hydrocephalus in children
2. Liver function tests
3. Describe the pathophysiology of metabolic acidosis and enumerate the causes of metabolic acidosis in children
4. Developmental screening tests
5. Physiology of lactation and role of human milk banking
6. Describe the development of trachea and esophagus and discuss types of tracheo esophageal fistula
7. Arterial supply to brain
8. Discuss the fetal circulation and physiologic changes that occur at birth. Add a note on duct dependent lesions
9. Congenital Abnormalities of Platelet Function
10. Discuss the congenital anomalies of kidney and urinary tract

(10 marks × 10 = 100 marks)



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**PAPER II**

Thursday, July 10, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the Questions:**

1. Etiology, pathophysiology and prevention of Sudden infant death syndrome.
2. 2 year old presents with complaints of not gaining weight. On examination weight is 6 kg and height is 72 cm. Discuss your approach.
3. Define ADHD, approach, goals and management of a child with ADHD.
4. Clinical feature of Infant of a diabetic mother (IDM), post-natal complications and management of IDM
5. Preparation and management of a newborn in a delivery room
6. IMNCI
7. Developmental dysplasia of hip
8. Clinical features and management of hyperkalemia
9. Discuss etiopathogenesis and management of obesity in children
10. Intravenous Immunoglobulin

(10 marks × 10 = 100 marks)



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**MD (PAEDIATRICS) DEGREE EXAMINATION – JULY 2025**  
**PAPER III**

Friday, July 11, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍. Answer all the question:

✍. Use diagrams and flow charts if necessary

1. Disease-modifying antirheumatic drugs used in children
2. Discuss etiology, clinical features, and management of chronic kidney disease
3. Pharmacotherapy of children with ADHD
4. ICU management of severe DKA
5. Describe the clinical utility of exome sequencing
6. Role of Bio-Fire in paediatric encephalitis syndromes
7. Management of refractory congestive cardiac failure
8. Classification dengue fever and management of dengue shock syndrome
9. Define near drowning. Discuss pathophysiology and management of near drowning
10. Discuss the clinical features and management of acute disseminated encephalomyelitis (ADEM)

(10 marks × 10 = 100 marks)



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**MD (PAEDIATRICS) DEGREE EXAMINATION – JULY 2025**  
**PAPER IV**

Saturday, July 12, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

1. Discuss etiology clinical features and management of cardiogenic shock
2. Genetic counselling
3. Post-Transplant lymphoproliferative disorder
4. New Onset Refractory Epilepsy
5. Chromosomal Microarray
6. Describe insulin therapy in Insulin Dependent Diabetes Mellitus. Add note on continuous glucose monitoring
7. Fecal calprotectin levels in pediatric practice
8. Fetal therapy
9. Discuss the role of lung ultra sound in respiratory distress syndrome
10. Tocilizumab

(10 marks × 10 = 100 marks)

