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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (PAEDIATRICS) DEGREE EXAMINATION – JANUARY 2025**  
**(REGULAR)**  
**PAPER I**

Tuesday, January 14, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

 **Answer ALL questions.**

1. Discuss the embryogenesis of neural tube. Describe clinical features of various neural tube defects.
2. Karyotype.
3. Outline coagulation pathway. Discuss types of von-Willebrand disease.
4. Digoxin
5. Describe the pathogenesis and clinical features of neurocysticercosis
6. Role of micronutrients in child health
7. Surfactant
8. Tubular function
9. Complement system
10. Antimicrobial stewardship

(10 marks × 10 = 100 marks)



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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (PAEDIATRICS) DEGREE EXAMINATION – JANUARY 2025**  
**(REGULAR)**  
**PAPER II**

Wednesday, January 15, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

 **Answer all the Questions:**

1. Learning disability: types and diagnosis .
2. Define near drowning. Discuss pathophysiology and management of near drowning.
3. Patterns of genetic transmission.
4. Discuss approach to the suspected case of primary immunodeficiency.
5. Vitamin B complex deficiencies
6. Refeeding syndrome
7. Describe Bell's classification and management of newborn with necrotizing enterocolitis.
8. Describe stages and management of hypoxic ischaemic encephalopathy.
9. Enumerate methods to assess fetal wellbeing. Describe biophysical profile.
10. Rashtriya bal swasthya karyakram

(10 marks × 10 = 100 marks)



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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (PAEDIATRICS) DEGREE EXAMINATION – JANUARY 2025**  
**(REGULAR)**  
**PAPER III**

Thursday, January 16, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

**✍. Answer all the question:**

1. Describe clinical feature of congenital hypothyroidism and discuss the approach to management.
2. Define Acute Kidney injury (AKI) and discuss the management.
3. Management of a child 12 year old child with thalassemia major.
4. Describe management of a child with diabetic keto acidosis and add a note on long term management.
5. Discuss the approach to a 5 year old child with hematuria
6. Discuss the approach to a 3 month old child with ambiguous genitalia
7. Nadas criteria for diagnosis of congenital heart disease. Describe management of a 6 year old child with ventricular septal defect and congestive cardiac failure.
8. Enumerate neurocutaneous markers. Describe the clinical feature and management of Sturge-weber syndrome.
9. Paroxysmal Nocturnal Hemoglobinuria
10. Discuss diagnostic criteria and management of systemic lupus erythematosus

(10 marks × 10 = 100 marks)



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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (PAEDIATRICS) DEGREE EXAMINATION – JANUARY 2025**  
**(REGULAR)**  
**PAPER IV**

Friday, January 17, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

 **Answer ALL questions.**

1. Describe role of Next generation sequencing in children
2. Write a note on current treatment of drug resistant tuberculosis in children.
3. Discuss the 2024 Global Initiative for Asthma (GINA) guidelines updates in pediatric asthma.
4. Macrophage activation syndrome
5. Insulin therapy: recent advances
6. Principles of antiarrhythmic therapy
7. Augmentative and Alternative Communication
8. Point-of-Care Ultrasound (POCUS) in Pediatrics
9. Advances in treatment of juvenile idiopathic arthritis
10. Discuss the methods of prenatal diagnosis

(10 marks × 10 = 100 marks)

