THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 0524] **MAY 2024** **Sub. Code: 4024**

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

PAPER IV – PAEDIATRIC MEDICINE INCLUDING ADVANCES IN PAEDIATRICS RELATING TO CLUSTER II SPECIALTIES
(CLUSTER II : NEUROLOGY AND DISABILITIES, NEPHROLOGY, HEMATOLOGY AND ONCOLOGY, ENDOCRINOLOGY, GASTROENTEROLOGY AND HEPATOLOGY, RESPIRATORY AND CARDIOVASCULAR DISORDERS)
Q.P. Code: 204024

Time: Three Hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 15 = 30)**

1. Enumerate the various functions of Growth hormone and describe the indications of Growth hormone therapy.

2. Etiopathogenesis, clinical features and management of portal hypertension.

II. Write notes on: **(10 x 7 = 70)**

1. Recent advances in the management of childhood asthma.
2. Polysomnography and its role in children.
3. High Flow nasal oxygen therapy in children.
4. Role of ultra sonogram in Neonatal Intensive Care Unit.
5. Cytogenetics in acute leukemia.
6. Wilms tumour.
7. Current guidelines for management of vesicouretric reflux in children.
8. Pediatric RIFLE criteria for acute kidney injury.
9. Fulminant hepatic failure.
10. Persistent diarrhea.

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THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 1224] **DECEMBER 2024** **Sub. Code: 4024**
(OCTOBER 2024 EXAM SESSION)

M.D. DEGREE EXAMINATION

PAEDIATRICS
PAPER IV – PAEDIATRIC MEDICINE INCLUDING ADVANCES IN PAEDIATRICS RELATING TO CLUSTER II SPECIALTIES
(CLUSTER II: NEUROLOGY AND DISABILITIES, NEPHROLOGY, HEMATOLOGY AND ONCOLOGY, ENDOCRINOLOGY, GASTROENTEROLOGY AND HEPATOLOGY, RESPIRATORY AND CARDIOVASCULAR DISORDERS)
Q.P. Code: 204024

Time: Three Hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 15 = 30)**

(2+5+4+4)

1. A 10-month-old infant has brought with sever hypotonia with absent reflexes. On examination tongue fasciculation present and there is no organomegaly.
   a) What is your clinical diagnosis?
   b) Mention the investigations of choice.
   c) Describe the newer treatment options in this child.
   d) Illustrate the disorders of motor unit with the help of a diagram.

(5+5+5)

2. A 6-year-old afebrile child presents with acute onset of breathing difficulty with history of similar attacks earlier. How will you manage this child? What are the steps that can be taken for preventing such attacks? Add a note of SMART therapy.

II. Write notes on: **(10 x 7 = 70)**

1. Molecular diagnosis of Thalassemia.
2. Renal Replacement therapy.
3. Crizanlizumab.
4. Differentiate Autoimmune hepatitis and Wilson's Disease.
5. Revised Jones Criteria for Acute Rheumatic fever.
6. Acrodermatitis Enteropathica.
7. Precocious puberty.
8. Blood Component Therapy in paediatric practice.
9. Management of Infective Endocarditis.
10. Prognostic factors in Acute Lymphoblastic Leukaemia.

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THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 0525] **MAY 2025** **Sub. Code: 4024**

M.D. DEGREE EXAMINATION

PAEDIATRICS

PAPER IV – PAEDIATRIC MEDICINE INCLUDING ADVANCES IN PAEDIATRICS RELATING TO CLUSTER II SPECIALTIES
(CLUSTER II: NEUROLOGY AND DISABILITIES, NEPHROLOGY, HEMATOLOGY AND ONCOLOGY, ENDOCRINOLOGY, GASTROENTEROLOGY AND HEPATOLOGY, RESPIRATORY AND CARDIOVASCULAR DISORDERS)
Q.P. Code: 204024

Time: Three Hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 15 = 30)**

1. Enumerate on the diagnostic approach and management of Auto-immune encephalitis.

2. Enumerate the pathogenesis, clinical manifestations and management of Wilson disease.

II. Write notes on: **(10 x 7 = 70)**

1. Proximal Renal Tubular acidosis.
2. Chronic Recurrent aspiration.
3. Extra-cardiac complications of cyanotic congenital heart disease.
4. Fanconi anemia.
5. Predisposing factors for pyogenic meningitis.
6. Screening Guidelines for children with Type 1 Diabetes mellitus.
7. Persistent diarrhea.
8. Infantile Dyschezia.
9. Management of Steroid resistant nephrotic syndrome.
10. Haemopoietic Stem Cell Therapy (HSCT) in children.

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THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[MD 1025] **OCTOBER 2025** **Sub. Code: 4024**

M.D. DEGREE EXAMINATION

PAEDIATRICS

PAPER IV – PAEDIATRIC MEDICINE INCLUDING ADVANCES IN PAEDIATRICS RELATING TO CLUSTER II SPECIALITIES
(CLUSTER II: NEUROLOGY AND DISABILITIES, NEPHROLOGY, HEMATOLOGY AND ONCOLOGY, ENDOCRINOLOGY, GASTROENTEROLOGY AND HEPATOLOGY, RESPIRATORY AND CARDIOVASCULAR DISORDERS)

Q.P. Code: 204024

Time: Three Hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 15 = 30)**

(2+2+2+5+4)

1. Define Cluster Headache, Tension type of Headache and Migraine according to International Headache Society Criteria. Explain briefly about the treatment and prevention of Migraine in children.

(4+4+4+3)

2. Describe Nada's criteria. Discuss with the help of a suitable diagram the haemodynamics in tetralogy of Fallot. Discuss the step wise management of cyanotic spell. Add a note on surgical corrections of tetralogy of Fallot.

II. Write notes on: **(10 x 7 = 70)**

1. Biological Therapies of severe asthma.
2. Artificial intelligence in care of paediatric patients.
3. Drug resistant epilepsy.
4. Counselling for a dying child to his mother.
5. KIDGO staging of Acute Kidney Injury.
6. Voxelotor.
7. Oncologic emergencies.
8. MusQan initiative.
9. Emicizumab.
10. Lactose intolerance.

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THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[MD 0526] **MAY 2026** **Sub. Code: 4024**

M.D. DEGREE EXAMINATION

PAEDIATRICS

PAPER IV – PAEDIATRIC MEDICINE INCLUDING ADVANCES IN PAEDIATRICS RELATING TO CLUSTER II SPECIALITIES
(CLUSTER II: NEUROLOGY AND DISABILITIES, NEPHROLOGY, HEMATOLOGY AND ONCOLOGY, ENDOCRINOLOGY, GASTROENTEROLOGY AND HEPATOLOGY, RESPIRATORY AND CARDIOVASCULAR DISORDERS)

Q.P. Code: 204024

Time: Three Hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 15 = 30)**

1. Classify Haemolytic anaemia, investigations and recent advances in the management of thalassemia.

2. Mis-c (Multisystem Inflammatory Syndrome in Children) clinical features and management.

II. Write notes on: **(10 x 7 = 70)**

1. High frequency ventilation.

2. Foetal therapy.

3. Pain Management in Children.

4. Balanced Diet.

5. NMDA receptor encephalitis.

6. Exome sequencing in paediatrics.

7. Recent advances in treatment of spinal muscular atrophy.

8. Point of care ultrasound scanning in the treatment of sick children POCUS.

9. Iron Refractory Iron deficiency anaemia.

10. Enzyme replacement.

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