

April-2001

[KD 139]

Sub. Code : 2036

M.D. DEGREE EXAMINATION.

Branch VII — Paediatrics

(Revised Regulations)

Part II

Paper III — SPECIALITIES OF PEDIATRICS
MEDICINE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the causes and management of childhood hemiplegia. (25)
 2. Discuss the value of ultrasonic diagnosis in Paediatrics practice. (25)
 3. Write notes : (5 × 10 = 50)
 - (a) Differential diagnosis of maculopapular rashes in children.
 - (b) Pett's Disease.
 - (c) Juvenile cataract.
 - (d) Transfusion of blood fractions.
 - (e) Indication for growth hormone therapy.
-

November-2001

[KE 139]

Sub. Code : 2036

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VII — Paediatrics

Part II

Paper III — SPECIALITIES OF PAEDIATRICS
MEDICINE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Evaluation of short stature and how do you manage growth hormone deficiency. (25)
 2. Genetic – counselling and dietary modification for specific metabolic disorders. (25)
 3. Short notes : (5 × 10 = 50)
 - (a) Disorder of granulocyte function.
 - (b) Management of cyanotic spells.
 - (c) Management of urinary tract infection.
 - (d) Management of Acute Pulmonary Edema.
 - (e) Management of constipation of surgical causes.
-

March-2002

[KG 139]

Sub. Code : 2036

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VII — Paediatrics

Part II

Paper III — SPECIALITIES OF PAEDIATRIC
MEDICINE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Marked oliguria 1 week after an acute episode of mucoid, bloody diarrhoea in a 2 year old child. Discuss the management. (25)
 2. 8 year old boy admitted for evaluation of recurrent swelling and pain in the wrist, knee and ankle joints over a 6 months period. Discuss the differential diagnosis, investigations and management. (25)
 3. Write notes on : (5 × 10 = 50)
 - (a) Role of newer macrolide antibiotics in childhood infections.
 - (b) Causes and work up of a 6 year old child with recurrent pain abdomen.
 - (c) Causes and management of refractory congestive heart failure in a 2 year old boy.
 - (d) Pure red cell Aplasia.
 - (e) Unilateral cryptorchidism.
-

September-2002

[KH 139]

Sub. Code : 2036

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VII — Paediatrics

Part II

Paper III — SPECIALITIES OF PAEDIATRICS
MEDICINE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the normal haemostasis mechanism and management of a case of classical haemophilia. (25)
 2. Describe the etiopathogenesis, metabolic changes and management of acute renal failure. (25)
 3. Write notes on : (5 × 10 = 50)
 - (a) Diagnosis and management of congenital hypothyroidism
 - (b) Diagnosis and management of neuroblastoma
 - (c) Status epilepticus
 - (d) Management of cyanotic spell in tetralogy of fallot
 - (e) Management of TB Meningitis.
-

April-2003

[KI 139]

Sub. Code : 2036

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VII — Paediatrics

Part II

Paper III — SPECIALITIES OF PAEDIATRICS
MEDICINE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the differential diagnosis of a child with cyanotic congenital heart disease with congestive heart failure and describe the management. (25)
 2. Discuss the diagnosis and management of recent purpura in a child. (25)
 3. Write notes on : (5 × 10 = 50)
 - (a) Wilm's tumour
 - (b) Congenital hydrocephalus
 - (c) Acute renal failure
 - (d) Microcytic anaemia
 - (e) Urinary tract infection.
-

[KJ 139]

Sub. Code : 2036

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch VII — Paediatrics

Part II

Paper III — SPECIALITIES OF PAEDIATRICS
MEDICINE

Time : Three hours ¹ Maximum : 100 marks

Theory : Two hours and forty minutes Theory : 80 marks

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

MCQ must be answered SEPARATELY on the
Answer Sheet provided as per the instructions on the
first page.

Answer ALL questions.

Draw suitable diagram wherever necessary.

I. Essay : (2 × 15 = 30)

(a) How would you approach to diagnose and
manage a child with Ambiguous Genitalia?

(b) Describe the formation, circulation and
composition of Cerebrospinal Fluid and discuss the
etiology, diagnosis and management of Hydrocephalus
in a 2 Year old child?

II. Write briefly on : (10 × 5 = 50)

(a) Postnatal Management of Antenatally
detected Pelviureteric Junction Obstruction.

(b) Diagnosis and Management of Infective
Endocarditis.

(c) Laboratory evaluation and management of
Acute Lymphoblastic Leukaemia.

(d) Newer Anticonvulsants.

(e) Sick cell Crisis and management.

(f) Outline the Physiology of Coagulation.

(g) Investigation in a child with short Stature.

(h) Digoxin Toxicity.

(i) Diagnosis and Management of a child with
Vesico-Ureteric Reflux.

(j) Refractive Congestive Cardiac Failure in
Rheumatic Heart Disease.

[KL 139]

Sub. Code : 2036

II. Write short notes :

(10 × 5 = 50)

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Part II

Branch VII — Paediatrics

Paper III — SPECIALITIES OF PAEDIATRICS MEDICINE

Time : Three hours **Maximum : 100 marks**

Theory : Two hours and forty minutes	Theory : 80 marks
---	-------------------

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay : (2 × 15 = 30)

(1) Discuss recent advances in the management of Thalassemia.

(2) Discuss recent advances in the management of septic shock.

(a) 'Hard of hearing'.

(b) Neonatal screening for congenital hypothyroidism.

(c) Management of Kawasaki disease.

(d) Leukotriene receptor antagonists.

(e) Vesico-ureteric reflux.

(f) Tumor lysis syndrome.

(g) Biochemical screening of mental retardation.

(h) Spastic society.

(i) Post polio syndrome.

(j) Acute adult respiratory syndrome.

[KM 139]

Sub. Code : 2036

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Part II

Branch VII — Paediatrics

Paper III — SPECIALITIES OF PAEDIATRICS
MEDICINE

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary

I. Essay : (2 × 15 = 30)

(1) Classify childhood anemias. Discuss the etiology, pathophysiology and management of autoimmune haemolytic anemia in children.

(2) Discuss the etiology, differential diagnosis and management of neuro degenerative disorders of childhood.

II. Write notes on : (10 × 5 = 50)

- (a) Colony stimulating factors.
- (b) Duct dependant cardiac lesions.
- (c) Iron chelation therapy.
- (d) Micturiting cysto - urethrogram.
- (e) Hashimoto's disease.
- (f) Non oliguric renal failure.
- (g) Food allergy.
- (h) Sturge - Weber Syndrome.
- (i) Management of diabetic keto acidosis.
- (j) Prognostic factors in childhood acute lymphoblastic leukemias.

[KO 139]

Sub. Code : 2036

M.D. DEGREE EXAMINATION.

Branch VII — Paediatrics

SPECIALITIES OF PAEDIATRICS MEDICINE

Time : Three hours **Maximum : 100 marks**

Theory : Two hours and forty minutes	Theory : 80 marks
---	--------------------------

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay : (2 × 15 = 30)

(1) Write on Renal failure in children, classification, etiology, pathogenesis, investigation and management.

(2) Write on acute flacid paralysis in children, classification, etiology management and surveillance

II. Write short notes on : (10 × 5 = 50)

(a) Current strategies of treatment of Hodgkin disease.

(b) CNS leukemia.

- (c) Auto immune hemolytic anemia.
- (d) Fanconi's Anaemia.
- (e) 2D Echocardiograph.
- (f) Management of Hypertension.
- (g) Precocious Puberty.
- (h) Cretinism.
- (i) Agenesis of corpus callosum.
- (j) Percutaneous balloon valvuloplasty.

[KP 139]

Sub. Code : 2036

M.D. DEGREE EXAMINATION.

Branch VII — Paediatrics

SPECIALISTS OF PAEDIATRICS MEDICINE

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable Diagrams wherever necessary.

I. Essay :

(1) Genetic counseling - Definition, indications, types of Genetic Disorders, Prenatal Diagnosis, Legal implication and Role of Gene Therapy in Genetic Disorders. (20)

(2) Community Acquired Pneumonia
Definition, Aetiology and Clinical features according to the age and its Radiology and Laboratory evaluation. (15)

(3) Give an account of the differential diagnosis of a 3 year old child admitted in 'Coma'. How will you investigate and manage. (15)

II. Write short notes on : (6 × 5 = 30)

- (a) Physiological anemia of Prematurity.
 - (b) Infantile colic
 - (c) Principles of treatment of diarrhoea and dehydration
 - (d) Hypoxic spells
 - (e) Fragile X-syndrome
 - (f) Congenital cataract.
-

[KQ 130]

Sub. Code : 2036

M.D. DEGREE EXAMINATION.

Branch VII — Paediatrics

SPECIALITIES OF PAEDIATRICS MEDICINE

Part II — Paper III (Old/New/Revised Regulations)
(Candidates admitted from 1988–89 onwards)

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

1. Define ARI, classification of ARI, diagnosis and management of pneumonia in ARI programme and the objectives of ARI programme under CSSM. (20)

2. Discuss the clinical features of various Iodine deficiency states in childhood. Describe the objectives and outcome of National goiter control programme by Government of India. (15)

3. Outline the abnormalities of Leucocytes, FAB classification and management of Acute Lymphoblastic Leukemia in a child of 5 years. (15)

II. Short notes :

(6 × 5 = 30)

(a) Phakomatosis.

(b) Caffey's disease.

(c) Neural tubular defects.

(d) Peripheral smear in beta-thalassemia.

(e) Diet in chronic renal failure.

(f) IMCL.

[KQ 132]

Sub. Code : 2032

M.D. DEGREE EXAMINATION,

Branch VII — PAEDIATRICS

Candidates Admitted from 2004-05 onwards

**Paper IV — SPECIALITIES OF PAEDIATRICS
MEDICINE AND RECENT ADVANCES**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I Essay

1. Define Bronchial Asthma. Discuss the etiology, Pathogenesis, clinical features and recent advances in the management of childhood Asthma. (20)
2. 8 Yrs. old child admitted in the hospital with history of fever for 2 weeks, convulsions and coma. Discuss the etiology, Differential diagnosis, management, complications and prognosis. (15)
3. Write on congestive cardiac failure in children, etiology, clinical features investigations and recent advances in the treatment. (15)

II Short notes

(6 × 5 = 30)

- (a) Pulmonary Function tests.
 - (b) Hyperkalemia in children
 - (c) Status marmoratus.
 - (d) CT and MRI in the diagnosis of Respiratory disease.
 - (e) 2D Echo cardiograph
 - (f) CNS leukemia.
-

[KR 134]

Sub. Code : 2030

M.D. DEGREE EXAMINATION.

Branch VII – Paediatrics

SPECIALITIES OF PAEDIATRICS MEDICINE

(Candidates admitted from 2004–2005 onwards)

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

1. Discuss the differential diagnosis of large head and how will you manage a child with hydrocephalus.(20)
2. Name the coagulation factors? Write in detail about anti haemophilic factor. (15)
3. Importance of urine examination in clinical paediatric practice. (15)

II. Write short notes on : (6 × 5 = 30)

- (a) Tuberculoma of brain
 - (b) Cretinism
 - (c) Bone - marrow aspiration
 - (d) Infantile colic
 - (e) Transposition of Great vessels
 - (f) Principles of treatment of diarrhoea and dehydration.
-

[KR 136]

Sub. Code : 2032

M.D. DEGREE EXAMINATION.

Branch VII — Paediatrics

Paper IV — SPECIALTIES OF PAEDIATRICS
MEDICINE AND RECENT ADVANCES

(Candidates admitted from 2004-05 onwards)

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary

I. Essay :

1. Define anaemia. Discuss about approach to a child with anaemia. Add note on new therapeutic approaches in treatment of thalassemia. (20)

2. Discuss about etiology, approach and treatment of short stature in children. (15)

3. Define status epilepticus. Discuss about etiology, treatment and prognosis of the same. (15)

II. Short notes : (6 × 5 = 30)

(a) Supraventricular tachycardia

(b) Multidisciplinary care of children with cancer

(c) Imaging studies in urinary tract infection

(d) Pseudotumor cerebri

(e) Prevention of mental retardation

(f) Consumptive coagulopathy.

MARCH 2008

[KS 134]

Sub. Code : 2085

M.D. DEGREE EXAMINATION.

Branch VII — Paediatrics

Paper IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES

(Candidates admitted from 2004–05 onwards)

Q. P. Code : 202029

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Long Essay : (2 × 20 = 40)

1. Discuss the common causes of acute renal failure in children. How will you investigate and manage acute renal failure?
2. Define 'Drug resistant malaria'. Enumerate the types of drug resistance as per WHO criteria. Discuss the strategies of managing drug resistant malaria.

II. Write short notes : (10 × 6 = 60)

1. Efavarenc
 2. Circumcision
 3. Vaccine associated paralytic polio
 4. Management of nocturnal enuresis
 5. Pneumococcal vaccines
 6. Febrile neutropenia
 7. Iron poisoning.
 8. Antistaphylococcal drugs
 9. Spinal muscular atrophy
 10. Hypertrophic pyloric stenosis.
-

September 2008

[KT 134]

Sub. Code: 2085

M.D. DEGREE EXAMINATION

Branch VII – Paediatrics

**Paper IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

(For candidates admitted from 2004-2005 onwards)

Q.P. Code : 202085

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 X 20 = 40)

1. Write etiology, signs and symptoms, investigations, complications and management of dengue fever.
2. Diagnosis, management and prevention of Nosocomial infections in PICU and NICU.

II. Write short notes on : (10 X 6 = 60)

1. Staphylococcal toxic shock syndrome.
 2. Total parenteral nutrition.
 3. Perinatal HIV infection.
 4. Recurrent urinary tract infections in children.
 5. Newer Vaccines.
 6. IMS Act.
 7. Stem cell transplant.
 8. IV immunoglobulins.
 9. Zinc in health and disease.
 10. Extra ocular manifestations of vitamin A deficiency.
-

March 2009

[KU 134]

Sub. Code: 2085

M.D. DEGREE EXAMINATION

Branch VII – PAEDIATRICS

(For candidates admitted from 2004-2005 to 2007-2008 onwards)

**Paper IV – SPECIALITIES OF PAEDIATRIC MEDICINE AND
RECENT ADVANCES**

Q.P. Code : 202085

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 x 20 = 40)

1. Etiology, clinical features, investigations, management and complications of enteric fever. How will you manage multi drug resistant salmonella typhi (MDR-ST) infection?
2. Discuss the current perspectives of thalassemia syndrome. Add a note on recent advances in iron chelation therapy.

II. Write short notes on :

(10 x 6 = 60)

1. Anemia in lead poisoning.
2. Blood component therapy in pediatric practice.
3. Stem cell transplantation.
4. Primary immunodeficiencies.
5. Counseling a mother for her dying child.
6. Recent vaccine related deaths in Tamil Nadu.
7. Childhood obesity and risk factors.
8. The role of recent vaccines in child health.
9. BPNI (Breast feeding promotion network in India).
10. Recent advances in nebulisation and inhaler therapy for asthma.

September - 2009

[KV 134]

Sub. Code: 2085

M.D. DEGREE EXAMINATION

Branch VII – PAEDIATRICS

(For candidates admitted from 2004-2005 to 2007-2008 onwards)

**Paper IV – SPECIALITIES OF PAEDIATRIC MEDICINE AND
RECENT ADVANCES**

Q.P. Code : 202085

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 x 20 = 40)

1. Discuss the biochemical changes in diabetic ketoacidosis. Write in detail about the management of diabetic ketoacidosis.
2. Discuss the causes of anaemia in a 3 year old child. How will you investigate this child?

II. Write short notes on : (10 x 6 = 60)

1. Anti-oxidants
2. Insulin like growth factor.
3. Newer anti-epileptic drugs.
4. Newer iron chelating agents.
5. Rational use of cephalosporins.
6. Helicobacter pylori in children.
7. Pneumococcal vaccine.
8. Stem cell transplant.
9. Non-invasive ventilation.
10. Newer diagnostic techniques for tuberculosis.

September 2010

[KX 134]

Sub. Code: 2085

M.D. DEGREE EXAMINATION

Branch VII – PAEDIATRICS

**SPECIALITIES OF PAEDIATRIC MEDICINE AND
RECENT ADVANCES**

**Paper IV – (For candidates admitted from 2004-2005 to 2007-2008) and
Part II - Paper III (For candidates admitted from 2008-2009 onwards)**

Q.P. Code : 202085

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. Discuss classification, pathophysiology, clinical characteristics and management of status epilepticus.
2. Discuss pathophysiology, etiology, evaluation and management of short stature.

II. Write short notes on :

(10 X 6 = 60)

1. Consumer problems and the paediatrician.
2. Postoperative complications of paediatric liver transplantation.
3. Diagnostic procedures in sleep disorders.
4. Evaluation of suspected T-cell or combined immune defect.
5. Newer treatment modalities in neonatal sepsis.
6. Antenatal steroids.
7. Prenatal diagnostic techniques.
8. Hot-water epilepsy.
9. Barker's hypothesis.
10. Hematological manifestations of systemic disease.

MAY 2011

[KY 134]

Sub. Code: 2085

**M.D. DEGREE EXAMINATION
BRANCH VII – PAEDIATRICS
SPECIALITIES OF PAEDIATRIC MEDICINE
AND RECENT ADVANCES**

Q.P. Code : 202085

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Discuss the approach to a child with coma and its management.	11	35	15
2. Discuss the classification, clinical features, complications and management of Nephrotic syndrome.	11	35	15

II. Write notes on :

1. Autism.	4	10	7
2. Maltreated child.	4	10	7
3. New guidelines for the management of dengue shock - syndrome.	4	10	7
4. Secondary hemophagocytic syndrome.	4	10	7
5. Non invasive positive pressure ventilation.	4	10	7
6. Food allergy.	4	10	7
7. Oncologic emergencies.	4	10	7
8. Brain death.	4	10	7
9. Migraine in children.	4	10	7
10. Hemolytic uremic syndrome.	4	10	7

October 2011

[KZ 134]

Sub. Code: 2085

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

SPECIALITIES OF PAEDIATRIC MEDICINE AND RECENT ADVANCES

Q.P. Code : 202085

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages Time Marks
(Max.) (Max.) (Max.)

- | | | | |
|---|----|----|----|
| 1. Discuss the classification of Seizures. Describe the investigations and treatment of a 6 year old child with status epilepticus. | 11 | 35 | 15 |
| 2. Describe the aetiology, pathogenesis, clinical feature and management of a child with hepatic coma. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. Oxygen free radicals. | 4 | 10 | 7 |
| 2. Newer vaccines. | 4 | 10 | 7 |
| 3. Juvenile Diabetes. | 4 | 10 | 7 |
| 4. Scrub Typhus. | 4 | 10 | 7 |
| 5. Opportunistic infections. | 4 | 10 | 7 |
| 6. Antenatal diagnosis. | 4 | 10 | 7 |
| 7. Gene therapy. | 4 | 10 | 7 |
| 8. Molecular diagnosis of thalassemia. | 4 | 10 | 7 |
| 9. Invasive pneumococcal disease and its prevention. | 4 | 10 | 7 |
| 10. Short course chemotherapy of tuberculosis. | 4 | 10 | 7 |

APRIL 2012

[LA 134]

Sub. Code: 2085

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

**SPECIALITIES OF PAEDIATRIC MEDICINE AND
RECENT ADVANCES**

Q.P. Code : 202085

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages (Max.)	Time (Max.)	Marks (Max.)
-------------------------	------------------------	-------------------------

- | | | | |
|---|----|----|----|
| 1. Discuss the complications and management of sickle cell anemia. | 16 | 35 | 15 |
| 2. Discuss the etiology, investigation and management of urinary tract infection. | 16 | 35 | 15 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. Management of Infective Endocarditis. | 4 | 10 | 7 |
| 2. Causes of secondary Nephrotic Syndrome. | 4 | 10 | 7 |
| 3. Protocol for management of status epilepticus. | 4 | 10 | 7 |
| 4. Indications for Stem Cell Transplantation. | 4 | 10 | 7 |
| 5. Prognostic factors in Acute Lymphoblastic Leukemia. | 4 | 10 | 7 |
| 6. Diagnostic criteria for Systemic Inflammatory Response Syndrome. | 4 | 10 | 7 |
| 7. Enumerate duct dependent congenital cardiac lesions and how to maintain duct patency. | 4 | 10 | 7 |
| 8. What is Bubble CPAP and discuss the indications. | 4 | 10 | 7 |
| 9. Discuss the syndromes associated with craniosynostosis. | 4 | 10 | 7 |
| 10. Cutaneous manifestations of systemic diseases and its relation to disease. | 4 | 10 | 7 |

(LC 134)

APRIL 2013

Sub. Code: 2085

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

SPECIALITIES OF PAEDIATRIC MEDICINE & RECENT ADVANCES

Q.P. Code: 202085

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss in detail about childhood leukaemia
2. 6yr old boy is brought with c/o hematuria, Puffiness of face, reduced urine output. On clinical examination, found to have unclad impetiginous lesions. Discuss the investigations, treatment, complications and its management.

II. Write notes on:

(10X7=70)

1. Double outlet right ventricle
2. Bronchiolitis
3. High frequency oscillatory ventilation
4. Gene therapy
5. Cerebral malaria
6. Trace elements
7. Partial parenteral nutrition
8. Fulminant Hepatic failure
9. Renal replacement therapy
10. Fetal monitoring

[LD 134]

OCTOBER 2013

Sub. Code: 2085

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

SPECIALITIES OF PAEDIATRIC MEDICINE & RECENT ADVANCES

Q.P. Code: 202085

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2 x 15 = 30)

1. Define Hypertension in Children. Discuss in Detail the Approach and Management of Hypertension in Children.
2. A 4 year old boy presents to you with weakness of Both lower limbs since two days. How will you Evaluate and Manage this case.

II. Write notes on:

(10 x 7 = 70)

1. Pseudo Tumor Cerebri.
2. Acute Disseminating Encephalomyelitis (ADEM).
3. Congenital Hypothyroidism.
4. Congenital Talipes Equinovarus.
5. Osteogenesis Imperfecta.
6. Role of Fresh Frozen Plasma and Cryoprecipitate in Paediatric clinical Practice.
7. Oncological Emergencies.
8. Fetal Surgical Therapy.
9. Management of Supra Ventricular Tachycardia (SVT).
10. Auto Immune Thrombocytopenias.

(LE 134)

APRIL 2014

Sub. Code:2085

**M.D. DEGREE EXAMINATION
BRANCH VII – PAEDIATRICS**

SPECIALITIES OF PAEDIATRICS MEDICINE & RECENT ADVANCES

Q.P.Code: 202085

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Define Rational use of drugs. What are the factors underlying irrational use of drugs. Give Rational antibiotic therapy in fever without focus, Pneumonia and Diarrhoea.
2. Discuss classification and management and indication of blood products in Dengue fever.

II. Write notes on:

(10X7=70)

1. Facility based Integrated Management of Childhood Illness.
2. Granulocyte transfusion.
3. Granisetron.
4. Catch up schedule of immunizations.
5. Treatment of Acne.
6. Hearing screening in children.
7. Multi drug Resistant Typhoid Fever.
8. Latest WHO classification of growth problems.
9. Probiotics in paediatric practice.
10. Sterilization of equipments in newborn.

(LF 134)

OCTOBER 2014

Sub. Code:2085

**M.D. DEGREE EXAMINATION
BRANCH VII – PAEDIATRICS**

**PAPER IV - SPECIALITIES OF PAEDIATRIC MEDICINE AND
RECENT ADVANCES**

Q.P.Code: 202085

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the etiology, pathogenesis, clinical features and recent advances in the management of childhood asthma.
2. Discuss the etiology, signs, symptoms, investigations, complications and management of dengue fever.

II. Write notes on:

(10 x 7 = 70)

1. Brain death.
2. Newer diagnostic techniques for Tuberculosis.
3. Insulin like growth factor.
4. Newer antiepileptic drugs.
5. Non-invasive ventilation.
6. Recent advances in iron chelation therapy.
7. Preventable mental retardation.
8. Neural tube defects.
9. Stem cell transplantation.
10. Cord blood banking.

[LG 134]

APRIL 2015

Sub. Code: 2085

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE
AND RECENT ADVANCES**

Q.P.Code: 202085

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the etiology, clinical features, investigations, and recent advances in the management of congestive cardiac failure.
2. Classify anaemia. Discuss the approach to a child with anaemia, and recent advances in the management of thalassemia.

II. Write notes on:

(10 x 7 = 70)

1. Breast milk banking.
2. Celiac disease.
3. Probiotic use in newborn and children.
4. Blood component therapy.
5. Haemophagocytic syndrome.
6. Migraine in children.
7. Scrub typhus.
8. Bubble CPAP.
9. Paracetamol poisoning.
10. Gene therapy.

[LH 134]

OCTOBER 2015

Sub. Code: 2085

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE

AND RECENT ADVANCES

Q.P. Code: 202085

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the management of enteric fever. Add a note on management of MDR-ST infection.
2. Discuss the differential diagnosis of large head and how will you manage a child with hydrocephalus?

II. Write notes on:

(10 x 7 = 70)

1. Vaccine associated paralytic polio.
2. Tuberculoma of brain.
3. Short stature in children.
4. Imaging studies in UTI.
5. Febrile neutropenia.
6. Circumscission.
7. Helicobacter pylori in children.
8. Prenatal diagnostic techniques.
9. DOTS.
10. Cerebral malaria.

**M.D. DEGREE EXAMINATION
BRANCH VII – PAEDIATRICS**

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P.Code: 202085

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss in detail about refractory anemias in children.
2. Define cerebral palsy. Classify the types of cerebral palsy. Discuss in detail the etiopathogenesis, clinical features and management of athetoid cerebral palsy.

II. Write notes on:

(10 x 7 = 70)

1. Gene therapy.
2. Management of breath holding spell.
3. Gastroesophageal reflux disease in children.
4. Recent advances in management of Thalassemia.
5. Stem cell therapy and its application.
6. Management of multi drug resistant typhoid.
7. Chronic ITP.
8. Status epilepticus.
9. Management of near drowning.
10. CRF in children.

**M.D. DEGREE EXAMINATION
BRANCH VII – PAEDIATRICS**

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P.Code: 202085

Time: Three Hours

Maximum: 100 Marks

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

1. What is inborn error of metabolism? When will you suspect inborn error of metabolism in a child? How will you approach a newborn with inborn error of metabolism?
2. What are the causes of viral hemorrhagic fever? Discuss a classification clinical features, investigation and management of dengue fever?

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

1. Non disjunction and Robertsonian translocation.
2. Fragile x syndrome.
3. Progeria.
4. Cytogenetics.
5. Mucopolysaccharidosis.
6. Fresh Frozen Plasma.
7. Auto immune hemolytic anemia.
8. Tumour lysis syndrome.
9. Fetal monitoring.
10. Cushing Syndrome.

(LK 134)

MAY 2017

Sub. Code:2085

**M.D. DEGREE EXAMINATION
BRANCH VII – PAEDIATRICS**

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P.Code: 202085

Time: Three Hours

Maximum: 100 Marks

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

1. Define recurrent urinary tract infection. Discuss the etiology, clinical features, complications and management of recurrent urinary tract infections in a 6 year old girl child.
2. Describe the various hemoglobinopathies seen in India. What is the role of genetic counselling?

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

1. Indications for growth hormone therapy.
2. Management of cyanotic spell.
3. Cryptorchidism.
4. Recent advances in management of Bronchial Asthma.
5. Acute renal failure.
6. Management of refractory cardiac failure.
7. Management of dog bite and its complications.
8. Management of scorpion sting with myocarditis.
9. Lennox-Gastaut syndrome.
10. Hypospadias.

(LL 134)

OCTOBER 2017

Sub. Code:2085

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P.Code: 202085

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. What are the causes of upper GI bleed in a child? How will you manage a ten-year old boy with a massive upper GI bleed?
2. A one- year old child is brought in the night with incessant cry. What are the common causes? How will you manage scorpion sting?

II. Write notes on:

(10 x 7 = 70)

1. Current strategies for polio eradication in India.
2. 2015 updated Jone's criteria.
3. Maneuvers for removal of foreign body obstructing upper airway.
4. Antenatal diagnosis of thalassemia.
5. Surgery for hydrocephalus and its complications.
6. Extracorporeal Membrane Oxygenation (ECMO).
7. Liver transplantation.
8. Hemophagocytic lympho histiocytosis (HLH).
9. Craniosynostosis.
10. Management of tricuspid atresia.

[LM 134]

MAY 2018

Sub. Code: 2085

**M.D. DEGREE EXAMINATION
BRANCH VII – PAEDIATRICS**

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P.Code: 202085

Time: Three Hours

Maximum: 100 Marks

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

1. A 5year old female child is brought with purpuric spots. Discuss the causes and investigations you do. How will you treat ITP?
2. A 10year old child is brought with weakness of all four limbs of 2 days duration. Discuss the causes. How will you manage Guillain- Barre syndrome?

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

1. Fetal therapy.
2. Treatment of transposition of great vessels.
3. Current strategies for Polio eradication in India.
4. Staphylococcal scalded skin syndrome.
5. Obstructive sleep apnea.
6. Acetaminophen poisoning.
7. Narrow complex tachycardia.
8. Absence seizures.
9. Kawasaki disease- clinical features and diagnosis.
10. Osteopetrosis.

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P. Code: 202085

Time: Three Hours

Maximum: 100 Marks

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

1. What is AES? Discuss the clinical features, Diagnosis, investigations, Management and complication of Japanese Encephalitis.
2. Discuss the Clinical features, Differential diagnosis and management with prevention of Scrub Typhus.

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

1. Management of MRSA infection.
2. Atopic dermatitis.
3. Management of organo phosphorus poisoning.
4. Cataract in children.
5. Oseltamivir.
6. Organisation of Newborn ward.
7. CPAP.
8. Malaria Vaccine – recent advances.
9. Chronic Urticaria.
10. Speech therapy.

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P. Code: 202085

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Outline the Etiopathogenesis of chronic Diarrhoea and provide a scheme of investigation for a child with Chronic Diarrhoea.
2. (a) Biology and role of Cytokines in newborn infant.
(b) Techniques of surfactant administration.
(c) Diagnosis and management of Persistent Pulmonary Hypertension in Newborn (PPHN).

II. Write notes on:

(10 x 7 = 70)

1. Management of Cerebral Malaria.
2. Recombinant factor VII a.
3. Indication and mode of action and side effects of IVIG in paediatric practice.
4. Immunophenotyping in the diagnosis of ALL and management of ALL in children.
5. Milrinone.
6. Revised 2014 WHO Classification and treatment of childhood Pneumonia.
7. MDR and XDR Tuberculosis treatment strategy.
8. Macrophage Activation Syndrome.
9. Diagnosis, Pathogenesis and Management of Toxic Shock Syndrome.
10. Digoxin Toxicity.

[LP 134]

OCTOBER 2019

Sub. Code: 2085

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P. Code: 202085

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Evaluation of a child with suspected immunodeficiency.
2. Define recurrent urinary tract infection. Discuss the aetiology, clinical features, management and complications in a 6 year old girl child.

II. Write notes on:

(10 x 7 = 70)

1. Management of Dengue with warning signs.
2. RNTCP – Recent guidelines in childhood Tuberculosis.
3. Growth Hormone therapy.
4. Vitamin K Deficiency Bleeding.
5. Management of adrenal crisis.
6. Migraine in children.
7. Diabetic Ketoacidosis – management.
8. Switch from tOPV to bOPV.
9. Minimally Invasive Surfactant Therapy (MIST).
10. Probiotics in Diarrhoea.

[LQ 134]

AUGUST 2020
(MAY 2020 SESSION)

Sub. Code: 2085

**M.D. DEGREE EXAMINATION
BRANCH VII – PAEDIATRICS**

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P. Code: 202085

Time: Three Hours

Maximum: 100 Marks

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

1. Evaluation of a child with short stature.
2. Clinical features, diagnosis & treatment of brain tumours in children.

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

1. Scrub Typhus.
2. Ventilator associated Pneumonia.
3. Calcitriol.
4. Precocious Puberty.
5. Etanercept.
6. Spinal Muscular Atrophy – Recent concepts.
7. Mycoplasmal Infections.
8. Bartter's Syndrome.
9. Day Care Therapy for Haemophilia.
10. Substance abuse in Adolescents.

[LS 134]

NOVEMBER 2020
(OCTOBER 2020 SESSION)
M.D. DEGREE EXAMINATION
BRANCH VII – PAEDIATRICS

Sub. Code: 2085

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P. Code: 202085

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Haemotopoietic stem cell transplantation
2. Causes, evaluation and management of obesity in children

II. Write notes on:

(10 x 7 = 70)

1. What are probiotics? Discuss their uses in Paediatrics
2. Diagnosis and management of autoimmune hepatitis
3. Stridor in children
4. Duct dependent cardiac lesions
5. Wilm's tumor
6. Causes of hypertension in a 6 year old child
7. Staphylococcal scalded skin syndrome
8. Congenital cataract
9. West syndrome
10. Inotropes

[MD 0721]

JULY 2021
(MAY 2021 SESSION)

Sub. Code: 2085

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P. Code: 202085

Time: Three Hours

Maximum: 100 Marks

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

1. Discuss pathophysiology of various types of shock. How will you manage septic shock.
2. Classify Leukemias. Discuss the clinical features, investigations and management of ALL.

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

1. Supra ventricular tachycardia.
2. Congenital Pulmonary Airway Malformation (CPAM).
3. Hemophagocytic Lympho-histiocytosis (HLH).
4. Seizure mimics.
5. Etiology, clinical features and investigations in Hemolytic uremic syndrome.
6. Disease modifying anti rheumatic drugs.
7. Timing of surgery for congenital acyanotic heart diseases.
8. Methicillin resistant staphylococcus aureus.
9. Liver transplantation.
10. Newer diagnostic modalities for tuberculosis.

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

[MD 1121]

**NOVEMBER 2021
(OCTOBER 2021 SESSION)**

Sub. Code: 2085

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P. Code: 202085

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. The pathogenesis and clinical consequences of nephrotic syndrome. Discuss the diagnosis and management of steroid resistant nephrotic syndrome.
2. Discuss the clinical approach to progressive ataxia in a school going boy. Describe Ataxia telangiectasia ?

II. Write notes on:

(10 x 7 = 70)

1. CRRT [continuous renal replacement therapy] in AKI.
2. Crohn's disease in paediatrics.
3. Indications for liver transplant in children.
4. Congenital pulmonary Airway malformation.
5. HPV Vaccine.
6. Treatment of chloroquine resistant malaria.
7. Hemochromatosis.
8. Increased Intracranial Pressure.
9. Management of upper gastrointestinal variceal bleeding.
10. Extra Corporeal Membrane oxygenation.

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

[MD 0522]

MAY 2022

Sub. Code: 2085

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P. Code: 202085

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Classify hemolytic anemia, investigation and recent trends in management of thalassemia.
2. Etiopathogenesis, clinical features and recent advances in management of childhood asthma.

II. Write notes on:

(10 x 7 = 70)

1. Newer vaccines and future vaccines
2. Foetal Therapy
3. Acute disseminated Encephalomyelitis (ADEM)
4. Newer anticonvulsants
5. Multi System Inflammatory Syndrome in children (MIS-C)
6. Vaccine Associated Paralytic Polio and Vaccine derived Polio virus
7. Gene therapy
8. Role of Probiotics in Paediatrics
9. Recent advances in management of neonatal sepsis
10. Management of Juvenile idiopathic arthritis (JIA)

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

[MD 1022]

OCTOBER 2022

Sub. Code: 2085

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P. Code: 202085

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. The Etiopathogenesis, clinical manifestations and management of Duchenne Muscular Dystrophy.
2. Discuss the causes, pathogenesis and management of Acute kidney injury in a six year old Girl child.

II. Write notes on:

(10 x 7 = 70)

1. Osteomyelitis.
2. ADEM.
3. Scarlet fever.
4. Auditory Brain Stem Response.
5. Cataract in children.
6. Floppy Infant Syndrome.
7. Recent advances in the management of Hypoxic Ischemic Encephalopathy.
8. Management of new onset Type 1 Diabetes mellitus without ketoacidosis.
9. Chronic lymphocytic thyroiditis.
10. Wilms' Tumor.

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

[MD 0723]

JULY 2023

Sub. Code: 2085

(MAY 2023 EXAM SESSION)

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P. Code: 202085

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Tabulate the Spectrum of Inherited Immunodeficiency Syndrome in Pediatric Practice. Discuss in detail about the defects in Neutrophils and its management.
2. Diagnostic criteria for the diagnosis of Staphylococcal and Streptococcal Toxic Shock Syndromes and their Management.

II. Write notes on:

(10 x 7 = 70)

1. Infections associated with Medical devices.
2. Recent advances in the management of Inhibitors Positive Hemophiliacs.
3. Diagnosis and Management of Auto Immune Hemolytic Anemia.
4. Vitamin dependency States.
5. Junk and Ultra – Processed foods – (JUNCS) and its effect on Children.
6. Discuss the diagnosis and management of Atopy in an infant.
7. Indications for IVIg in Children.
8. Indications for Stem Cell Transplant.
9. COVID Vaccination in Adolescents.
10. Edible Vaccines.

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

[MD 1223]

**DECEMBER 2023
(OCTOBER 2023 EXAM SESSION)**

Sub. Code: 2085

M.D. DEGREE EXAMINATION

BRANCH VII – PAEDIATRICS

**PAPER IV – SPECIALITIES OF PAEDIATRICS MEDICINE AND
RECENT ADVANCES**

Q.P. Code: 202085

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe in detail Epidemiology, Pathogenesis, Clinical features, Diagnosis and Management of Mycoplasma infections.
2. Elaborate on pathophysiology, classification, diagnosis and management of Non-Immune Hemolytic Anemia.

II. Write notes on:

(10 x 7 = 70)

1. Macrophage Activation Syndrome.
2. Enzyme Replacement Therapy.
3. Functional abdominal pain.
4. Vitamin Responsive Genetic disease.
5. Umbilical hernia.
6. Hemophagocytic Lymphohistiocytosis.
7. Total Parental Nutrition.
8. Human Pappilloma Virus vaccination.
9. Mucormycosis.
10. Rituximab.
