

MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION**SECOND YEAR****BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS****PAPER I – PHYSIOTHERAPY ASSESSMENT****(SPECIALITY – I)****Q.P. Code: 278124****Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :**

Pages (Max.)	Time (Max.)	Marks (Max.)
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- | | | | |
|--|----|---------|----|
| 1. Elaborate on neural tube defects and discuss in detail about assessment and PT management. | 17 | 40 min. | 20 |
| 2. Explain in detail about the principles and elements of evidence – based physiotherapy practice. | 17 | 40 min. | 20 |

II. Write notes on :

- | | | | |
|--|---|---------|---|
| 1. Types of amputation. | 4 | 10 min. | 6 |
| 2. Infant respiratory distress syndrome. | 4 | 10 min. | 6 |
| 3. Erb's palsy. | 4 | 10 min. | 6 |
| 4. Gaits in cerebral palsy. | 4 | 10 min. | 6 |
| 5. Embryonic development of heart. | 4 | 10 min. | 6 |
| 6. Early intervention. | 4 | 10 min. | 6 |
| 7. Depression. | 4 | 10 min. | 6 |
| 8. Documenting the examination. | 4 | 10 min. | 6 |
| 9. Adaptive equipments. | 4 | 10 min. | 6 |
| 10. Multidimensional functional assessment equipments. | 4 | 10 min. | 6 |

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION
SECOND YEAR**

BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS

PAPER I – PHYSIOTHERAPY ASSESSMENT

(SPECIALITY – I)

Q.P. Code: 278124

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

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

- | | | | |
|--|----|---------|----|
| 1. Describe in detail about the growth and development of a child during first 2 years of life. Add a note on Trivandrum developmental screening chart (TDSC). | 17 | 40 min. | 20 |
| 2. What are the causes of brachial plexus injuries in children? Describe the clinical features, complications and management of the same. | 17 | 40 min. | 20 |

II. Write Notes on :

- | | | | |
|---|---|---------|---|
| 1. First day assessment of a newborn. | 4 | 10 min. | 6 |
| 2. Immunisation schedule. | 4 | 10 min. | 6 |
| 3. Prenatal diagnosis. | 4 | 10 min. | 6 |
| 4. Etiopathogenesis and clinical manifestations of chronic osteomyelitis. | 4 | 10 min. | 6 |
| 5. List the various congenital heart defects and briefly describe patent ductus arteriosus. | 4 | 10 min. | 6 |
| 6. Limb shortening. | 4 | 10 min. | 6 |
| 7. Principles of evidence based physiotherapy practice. | 4 | 10 min. | 6 |
| 8. Wheelchair friendly home environment. | 4 | 10 min. | 6 |
| 9. Functional independence measure (FIM). | 4 | 10 min. | 6 |
| 10. Influence of psychosocial factors on rehabilitation. | 4 | 10 min. | 6 |

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION
SECOND YEAR**

BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS

PAPER I – PHYSIOTHERAPY ASSESSMENT

(SPECIALITY – I)

Q.P. Code: 278124

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Write the etiopathogenesis of various forms of cerebral palsy.
Describe the clinical features and guidelines for managing spastic cerebral palsy child aged 2 years.
2. Write the various types of spina bifida with its clinical presentation.
Discuss the management of meningocele child aged 5 years.

II. Write notes on:

(10 x 6 = 60)

1. Genetic counseling.
2. Positioning and splinting of burn in children.
3. Congenital vertical talus.
4. Red alerts suggesting developmental delay in a child.
5. Nutritional requirement during first 5 years of life.
6. Care and monitoring a child under assisted ventilation.
7. ICDH-2.
8. Disability friendly environment.
9. PULSES profile.
10. Elements of evidence based practice.

[LD 124]

OCTOBER 2013

Sub. Code: 8124

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION
SECOND YEAR**

BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS

PAPER I – PHYSIOTHERAPY ASSESSMENT

(SPECIALITY – I)

Q.P. Code: 278124

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Write the risk factors, assessment and early intervention of high risk infants.
2. Write the etiopathology & clinical features of Duchenne's muscular dystrophy (DMD).
Explain the management of 7 years old boy with DMD in ambulatory stage.

II. Write notes on:

(10 x 6 = 60)

1. Immunisation schedule.
2. Osteogenesis imperfect.
3. Infant respiratory distress syndrome.
4. Child abuse.
5. Erb's palsy.
6. Ethical practice in physiotherapy.
7. Ataxic cerebral palsy.
8. Epiphysis.
9. Depression.
10. Community access.

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SECOND YEAR**

BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS

PAPER I – PHYSIOTHERAPY ASSESSMENT

(SPECIALITY – I)

Q.P. Code: 278124

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Write the etiopathogenesis of hypotonic cerebral palsy.
Describe the management of hypotonic cerebral palsy child aged 4 years.
2. What are the causes of brachial plexus injuries in children?
Describe the clinical features, complications and management of the same.

II. Write notes on:

(10 x 6 = 60)

1. Neonatal reflexes.
2. Congenital muscular torticollis.
3. Classification of Juvenile rheumatoid arthritis.
4. Pneumonia.
5. Coping styles.
6. Functional independence measure.
7. Language delay.
8. Physiotherapy versus medical model of practice.
9. ICF coding.
10. Limping.

[LF 124]

OCTOBER 2014

Sub. Code: 8124

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION
SECOND YEAR**

BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS

PAPER I – PHYSIOTHERAPY ASSESSMENT

(SPECIALITY – I)

Q.P. Code: 278124

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Discuss in detail about the various examination and investigation procedures used to assess the neurological functions of a child.
2. Describe in detail about the assessment, investigations and diagnosis of duchenne muscular dystrophy (DMD).

II. Write notes on:

(10 x 6 = 60)

1. Childhood asthma.
2. Assessment of burns in children.
3. Developmental delay.
4. Assessment of muscle tone in children.
5. Osgood schlatter's disease.
6. Leukemia.
7. Spina bifida.
8. Ataxic cerebral palsy.
9. Documenting the evaluation.
10. Functional assessment in children.

[LG 124]

APRIL 2015

Sub. Code: 8124

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION
SECOND YEAR**

BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS

PAPER I – PHYSIOTHERAPY ASSESSMENT

(SPECIALITY – I)

Q.P. Code: 278124

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Describe in detail about the various examination and investigation procedures used in the diagnosis of hypertonic cerebral palsy.
2. Describe in detail about the assessment, investigations and differential diagnosis of juvenile rheumatoid arthritis.

II. Write notes on:

(10 x 6 = 60)

1. Moro's reflex.
2. Cystic fibrosis.
3. Causes and clinical features of Down syndrome.
4. Congenital muscular torticollis.
5. Chromosomal disorders.
6. Scissoring gait.
7. Vitamin D deficiency in children.
8. Defense reactions to disability.
9. Examination of the workplace.
10. Evaluation and diagnosis of duchenne muscular dystrophy.

[LH 124]

OCTOBER 2015

Sub. Code: 8124

**MPT DEGREE EXAMINATION
SECOND YEAR
SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT
BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS**

Q.P. Code : 278124

Time : Three hours

Maximum : 100 marks

I. Elaborate on:

(2 x 20 = 40)

1. Neuro-paediatric assessment of a neonate born at 28 weeks of gestational period.
2. Write the classification of congenital heart defects (CHD). Briefly describe the various defects and specify the cardiac assessment for the same.

II. Write notes on:

(10 x 6 = 60)

1. Pulse-polio programme.
2. Learning disabilities in children.
3. Denver's developmental screening test.
4. Flaccid child.
5. Respiratory distress syndrome.
6. Genetic disorders.
7. Principles of evidence based practice.
8. Osteosarcoma.
9. Erb's palsy.
10. Classification of burns in children.

[LJ 124]

OCTOBER 2016

Sub. Code: 8124

**MPT DEGREE EXAMINATION
SECOND YEAR
SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT
BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS**

Q.P. Code : 278124

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain the development and the assessment of Gait in children.
2. Write the detailed assessment procedure of Cerebral palsy and describe the differential diagnosis of Cerebral palsy.

II. Write notes on:

(10 x 6 = 60)

1. Motor control theories.
2. Spinal muscular atrophy.
3. Flatfoot in children.
4. Acute viral bronchiolitis.
5. Acute lymphocytic leukemia.
6. Floppy infant syndrome.
7. Positioning and splinting of burns in children.
8. Embryonic development of brain.
9. Community access.
10. Documentation of plan of care.

[LK 124]

MAY 2017

Sub. Code: 8124

**MPT DEGREE EXAMINATION
SECOND YEAR
SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT
BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS**

Q.P. Code : 278124

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain the various stages of Motor development of infants and children.
2. What are the types of Brachial plexus injuries in children? Write the causes and detailed assessment procedure of the same.

II. Write notes on:

(10 x 6 = 60)

1. Classification of Juvenile Rheumatoid Arthritis (JRA).
2. Patient home environment relationship.
3. Brain tumours.
4. Hyaline membrane disease.
5. Peri-ventricular hemorrhage in children.
6. Righting reactions.
7. Nutritional disorders of children.
8. Spastic cerebral palsy.
9. Depression.
10. Congenital abnormalities of spine.

[LL 124]

OCTOBER 2017

Sub. Code: 8124

**MPT DEGREE EXAMINATION
SECOND YEAR
SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT
BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS**

Q.P. Code : 278124

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe in detail about the growth and development of a child during first 2 years of life.
2. Explain in detail about assessment procedures related to pediatric Cardiopulmonary conditions.

II. Write notes on:

(10 x 6 = 60)

1. Trendelenburg sign.
2. Moro reflex in Erbs palsy.
3. Muscle length testing in poliomyelitis.
4. Electromyography in brachial plexus lesion.
5. Embryonic development of heart.
6. Hydrocephalus.
7. Ayres test.
8. Brain injuries.
9. Arthrogryposis multiplex congenital.
10. Chromosomal disorders.

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

[LM 124]

MAY 2018

Sub. Code: 8124

**MPT DEGREE EXAMINATION
SECOND YEAR
SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT
BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS**

Q.P. Code : 278124

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Write the etiopathology and clinical features of Duchenne's muscular dystrophy (DMD). Explain the management of 12 years old boy with DMD in ambulatory stage.
2. Explain in detail about assessment procedures related to pediatric musculoskeletal conditions.

II. Write notes on:

(10 x 6 = 60)

1. Ortolani's man oeuvre.
2. Neck-righting reflex in Erbs palsy.
3. Electromyography in DMD.
4. Broncho pulmonary Dysplasia.
5. Embryonic development of heart.
6. Landau reaction.
7. Neo natal assessment.
8. Babinski response.
9. Osteogenesis imperfect.
10. Genetics and development.

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

[LN 124]

OCTOBER 2018

Sub. Code: 8124

**MPT DEGREE EXAMINATION
SECOND YEAR
SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT
BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS**

Q.P. Code : 278124

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain the various tests of Motor development and functional performance in children.
2. What is Infantile Hemiplegia? Write the various causes and pathophysiology of Infantile Hemiplegia. Describe the evaluation and investigation procedures used to diagnose the same.

II. Write notes on:

(10 x 6 = 60)

1. Postural control mechanism in children.
2. Congenital scoliosis.
3. Patent ductus arteriosus.
4. Gaits in cerebral palsy.
5. Hydrocephalus.
6. High risk infants.
7. Grossmotor delay.
8. Adaptive equipments.
9. Documenting the examination.
10. Cystic fibrosis.

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

[LO 124]

MAY 2019

Sub. Code: 8124

MPT DEGREE EXAMINATION

SECOND YEAR

BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS

SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT

Q.P. Code : 278124

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. List down various primitive reflexes and explain in detail about its assessment and clinical significance.
2. Write in detail about assessment and investigation procedures for a child who had serious head injury 3 months ago.

II. Write notes on:

(10 x 6 = 60)

1. Bobath concept and principles of assessment.
2. Gross Motor Function Measurement scale (GMFM).
3. International classification of functioning.
4. Neurogenic Bladder.
5. Stretch reflex.
6. Cerebrospinal fluid.
7. Stages of brain development.
8. Electromyographic patterns in muscular dystrophy.
9. Congenital muscular torticollis.
10. Observational Gait analysis.

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

[LP 124]

OCTOBER 2019

Sub. Code: 8124

MPT DEGREE EXAMINATION

SECOND YEAR

BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS

SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT

Q.P. Code : 278124

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Write the detailed neurological and neuromuscular system assessment procedures for children.
2. Discuss the various cardiovascular structural deficits seen in children and briefly write about cardiac and thoracic surgeries performed in children.

II. Write notes on:

(10 x 6 = 60)

1. Evaluation of pediatric burns.
2. ICIDH.
3. Diplegic cerebral palsy.
4. Duchenne muscular dystrophy (DMD).
5. Osteogenesis imperfecta.
6. Down syndrome.
7. STNR & ATNR.
8. Infectious diseases of brain.
9. Perthes disease.
10. Righting reaction in children.

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

[LQ 124]

**NOVEMBER 2020
(MAY 2020 SESSION)**

Sub. Code: 8124

**MPT DEGREE EXAMINATION
SECOND YEAR
BRANCH IV – PHYSIOTHERAPY IN PAEDIATRICS
SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT**

Q.P. Code : 278124

Time : Three hours

Maximum : 100 Marks

I. Elaborate on: (2 x 20 = 40)

1. Describe in detail about the assessment, investigations and diagnosis of Juvenile Rheumatoid Arthritis.
2. Explain about the various electro-physiological diagnostic studies applied in pediatric neurology.

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

1. Functional examination – Vojta's concept.
2. Movement assessment of infants.
3. NAGI's disability model.
4. Intelligence quotient.
5. Deep tendon reflex.
6. Nerve conduction velocity test.
7. Documentation.
8. Neurofibromatosis with Scoliosis.
9. Assessment of dysarthria.
10. Bronchopulmonary dysplasia.
