

[KD 606 G] **APRIL 2001**

M.P.T. DEGREE EXAMINATION.

Fourth Semester

Paper III — PHYSIOTHERAPY — *Elective*

PAEDIATRIC NEUROLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

All questions carry equal marks.

1. **Case of 14 years old boy presenting with post-polio syndrome — Discuss physiotherapy treatment programme.**
 2. **Write in detail about the physiotherapy management for Brachial plexus lesion.**
 3. **A case of 2 years old boy with infantile hemiplegia — Write in detail about the Assessment and Management.**
 4. **Discuss the clinical features and management of 10 years old boy with Duchenne's Muscular dystrophy, who is now in the ambulatory phase.**
 5. **Explain the post-operative management and complications of myelomeningocele.**
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NOVEMBER 2001

[KE 606 G]

Sub. Code : 8006

M.P.T. DEGREE EXAMINATION.

Paper VI — PAEDIATRIC NEUROLOGY — (*Elective*)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

All questions carry equal marks.

1. Discuss the role of electrotherapy and sensory stimulation in the management of ERBS palsy. (20)
2. Identify the autosomal recessive muscle dystrophy. Describe physiotherapy management of any one in detail. (20)
3. What is Myelomen in Gocce? Describe the role of physiotherapy in the musculo-skeletal dysfunction. (20)
4. Identify all righting reaction. Describe when they appear and indicate methods of testing the same. (20)
5. Write short notes on : (4 × 5 = 20)
 - (a) Write a note on assessment of hydrocephalous.
 - (b) Give the role of physiotherapy in an ataxic cerebral palsy.

(c) Give the role of physiotherapy in acute Guillain Barre Syndrome.

(d) Describe the deformities in a Duchenne muscle dystrophy.

MARCH 2002

[KG 606 E]

Sub. Code : 8006

M.P.T. DEGREE EXAMINATION.

(Common to New/Revised Regulations)

PAEDIATRIC NEUROLOGY — (*Elective*)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

All questions carry equal marks.

1. Explain the common deformities occur in poliomyelitis. Write briefly the role of Physiotherapy after tendon – transfer surgery for foot drop. (20)
 2. Define and briefly outline the aetiology, types, clinical features and management of cerebral palsy. (20)
 3. A baby born through Breech presentation diagnosed as Right sided Erb's Palsy. Describe the physiotherapy management and home programme. (20)
 4. Enumerate the neo-natal Neurological Assessment. (20)
 5. Short notes : (4 × 5 = 20)
 - (a) Identify any one X-linked recessive muscle dystrophy and describe its clinical features
 - (b) Hydrocephalous — Discuss the precautions in physiotherapy management
 - (c) Importance of strengthening exercise in a case of Guillian Barre Syndrome
 - (d) Encephalitis assessment and treatment.
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SEPTEMBER 2002

[KH 606 E]

Sub. Code : 8006

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE
EXAMINATION.**

(Common to New/Revised Regulations)

PAEDIATRIC NEUROLOGY — (*Elective*)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

All questions carry equal marks.

1. Identify the reflex and reaction present between the age of three months to seven months. Discuss the implication of their persistence beyond the age of one year. (20)

2. Compare the hypotonic child to a spastic cerebral palsy. Describe atleast five variables in therapy that should be observed. (20)

3. Describe the role of physiotherapy in sub acute as well as late stage of poliomyelitis. (20)

4. Assessment and management of a six months old child with myelomeningocele. (20)

5. Short notes on :

(4 × 5 = 20)

(a) Tonic neck reflexes

(b) Spina bifida cystica.

(c) Muscular dystrophy

(d) Cerebral palsy.

OCTOBER 2003

[KJ 606 E]

Sub. Code : 8006

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE
EXAMINATION.**

(Common to New/Revised Regulations)

PAEDIATRIC NEUROLOGY — (Elective)

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

M.C.Q. must be answered **SEPARATELY** on the
answer sheet provided as per the instructions on the
first page.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Long essay : (2 × 15 = 30)

1. Define growth and development. Describe the sequence of events which lead to growth of a child upto one year. Discuss the significance of each stage of development with respect to motor control and motor skill.

2. Discuss the assessment principles of a child with spastic athetoid type of cerebral palsy. Describe one of the management approaches in detail.

II. Short essays : (10 × 5 = 50)

- (a) Neurological evaluation of a new born.
- (b) Principles of motor development.
- (c) Principles of PNF approach.
- (d) Sensory reeducation in a sensory defensive child.
- (e) Classification of muscular dystrophies.
- (f) Congenital Erb's palsy.
- (g) Significance of early intervention.
- (h) Causes of infantile hemiplegia.
- (i) Discuss prenatal causes of cerebral palsy.
- (j) Management of encephalitis.

APRIL 2004

[KK 606 E]

Sub. Code : 8006

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE
EXAMINATION.**

(Common to New/Revised Regulations)

PAEDIATRIC NEUROLOGY — (Elective)

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.

A. Write an Essay on :

(2 × 15 = 30)

(1) Describe the development of central nervous system in the first 7 years of life in normal and pathophysiological states.

(2) Give assessment and management of athetoid child.

B. Write short notes on :

(10 × 5 = 50)

(1) Negative signs in cerebral palsy child

(2) Gover's sign

(3) Becker's muscular dystrophy

(4) Signs and symptoms of raised intra cranial pressure

(5) Ventriculo peritoneal shunt

(6) Name types of muscular dystrophy

(7) Klumpkee's paralysis.

(8) Differentiate between decorticate and decerebrate rigidity

(9) Landau reflex

(10) **Myelomeningocele.**

FEBRUARY 2005

[KM 606 E]

Sub. Code : 8006

MASTER OF PHYSIOTHERAPY (MPT) DEGREE
EXAMINATION.

(Common to New/Revised Regulations)

PAEDIATRIC NEUROLOGY — (Elective)

Time : Three hours Maximum : 100 marks

Theory : Two hours and forty minutes	Theory : 80 marks
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M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write an Essay on : (2 × 15 = 30)

(1) Discuss the rationale of management in muscular dystrophies affecting children.

(2) Write an essay on the physiotherapy management of a 4 year old polio child during the recovery stage.

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

(a) Moro reflex

(b) Techniques of carrying cerebral palsy children

(c) Neurodevelopmental treatment approach

(d) ERB's palsy

(e) Sensory motor learning

(f) Causes of hydrocephalus

(g) Flacid child

(h) *Ophisthotomus*

(i) Genetic counselling in duchene muscular dystrophy

(j) Scissoring gait.

AUGUST 2005

[KN 606 E]

Sub. Code : 8006

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE
EXAMINATION.**

(Common to New/Revised Regulations)

PAEDIATRIC NEUROLOGY — (Elective)

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. Write an essay on :

(2 × 15 = 30)

(1) Write down the classification of muscular dystrophies and discuss the assessment and physiotherapy management of duchenne muscular dystrophy.

(2) Discuss the differences and similarities of hypertonicity and hypotonicity. Describe the specific therapy techniques aimed at normalizing tone in the child with hypertonicity.

II. Short notes on :

(10 × 5 = 50)

(a) What causes the forward lean posture in the ambulatory polio patients?

(b) Classification of peripheral neuropathies.

(c) **Vojta approach.**

(d) Common gait deviations in anterior poliomyelitis.

(e) Types of hydrocephalus.

(f) ERB'S palsy.

(g) Normal motor developments between three and eight months.

(h) Common orthopaedic problems in meningocele.

(i) Functional electrical stimulation.

(j) Ataxic cerebral palsy.

MARCH 2006

[KO 606 E]

Sub. Code : 8006

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE
EXAMINATION.**

(Common to New/Revised Regulations)

PAEDIATRIC NEUROLOGY — (*Elective*)

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. Write an Essay on : (2 × 15 = 30)

(1) (a) Discuss the Neonatal neurological assessment and their importance in early detection of Brain damage.

(b) Principles of physiotherapy in the Neonatal Intensive Care Units.

(2) Discuss in detail about the principles of proprioceptive neuromuscular facilitation techniques applied in paediatric physical therapy?

II. Write short notes on :

(10 × 5 = 50)

- (a) Sensory Reeducation
- (b) Hydrotherapy in paediatrics
- (c) Child motor development
- (d) Genetic counselling
- (e) Vojta technique
- (f) Electromyographic changes in myotonia
- (g) Vignos classification scale for Duchenne's muscular dystrophy
- (h) Gait analysis in residual poliomyelitis
- (i) Hydrocephalus
- (j) Erb's paralysis.

SEPTEMBER 2006

[KP 606 E]

Sub. Code : 8006

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE
EXAMINATION.**

(Common to New/Revised Regulations)

PAEDIATRIC NEUROLOGY — (Elective)

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. Write an Essay on :

(1) Give the principles of treatment of a patient recovering from acute anterior poliomyelitis? What precautions are necessary during the recovery stage?

(20)

(2) Discuss in detail about the Rood's approach of Normalization of tone in cerebral diplegia.

(15)

(3) Discuss about assessment and treatment of Hydrocephalus.

(15)

II. Write Short notes on :

(6 × 5 = 30)

(a) Compare and contrast re education Vs retraining of a muscle.

(b) Topographical classification of cerebral palsy.

(c) Technique of Icethrapy to control spasticity.

(d) Physiotherapy management following Tendon transfer surgery.

(e) Spinabifida cystica.

(f) Asymmetrical tonic neck reflex.

FEBRUARY 2007

[KQ 606 E]

Sub. Code : 8006

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE
EXAMINATION.**

(Common to New/Revised Regulations)

PAEDIATRIC NEUROLOGY — (Elective)

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. Write an essay on :

(1) Discuss in detail about the physical therapy assessment and treatment of patient with Duchenne's muscular dystrophy in various periods. (20)

(2) Write in detail about the orthotic prescription and gait training for the patients with high lumbar paralysis in spina bifida. (15)

(3) Discuss in detail about the principle, evaluation and treatment of Rood approach. (15)

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

(a) Use of balls and bolsters in cerebral palsy management.

(b) APGAR score.

(c) Acute management of poliomyelitis.

(d) Klumpke's palsy.

(e) Athetoid cerebral palsy.

(f) Dissociation.

MARCH 2008

[KS 606 (E)]

Sub. Code : 8108

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE
EXAMINATION.**

(Common to New/Revised Regulations)

PAEDIATRIC NEUROLOGY — (Elective)

Q.P. Code : 278108

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Write an essay on : (2 × 20 = 40)

1. Classify Muscular dystrophy and discuss in detail about the physical therapy Evaluation and Management of 10 years old boy with Duchenne Muscular Dystrophy. (20)

2. Write in detail about the Assessment of 4 years old girl with spastic diplegic cerebral palsy. Discuss the impairments and physical therapy management for the child. (20)

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

1. Role of Physiotherapy in Gullian Barre syndrome.

2. Neuro developmental therapy.

3. Ventricular system of Brain.

4. Erb's Palsy and its physiotherapy Management.

5. Adaptive equipments for physically challenged children.

6. Physiotherapy Management following soft-tissue release procedures in poliomyelitis.

7. Hydro cephalus.

8. Genetic counselling.

9. Electro myo graphic changes in myotonia.

10. Child motor development.

September 2008

[KT 606 (E)]

Sub. Code : 8108

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE
EXAMINATION.**

(Common to New/Revised Regulations)

PAEDIATRIC NEUROLOGY — (Elective)

Q.P. Code : 278108

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Write an essay on : (2 × 20 = 40)

1. Discuss in detail the assessment and physical therapy intervention for a seven year old boy with ataxic cerebral palsy. (20)

2. Explain the pathology of poliomyelitis and elaborate on the principles of physical therapy management of a child in the recovery phase of poliomyelitis. (20)

II. Short notes : (10 × 6 = 60)

1. Apgar score.

2. Brainstem level reflexes.

3. Dystrophin.

4. Topographical classification of cerebral palsy.

5. Spinal muscular atrophy.

6. Cerebro spinal fluid circulation.

7. Myelomeningocele.

8. Somato dyspraxia.

9. Neural tube.

10. Grading of spasticity.

March 2009

[KU 606 E]

Sub. Code: 8108

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

(Common to New/Revised Regulation)

Elective – PAEDIATRIC NEUROLOGY

Q.P. Code : 278108

Time : Three hours

Maximum : 100 marks

Answer All questions

Draw suitable diagrams where ever necessary

I. Essay questions :

(2 x 20 = 40)

1. Elaborate on the physiotherapy management for a child in various stages of Duchenne's muscular dystrophy.
2. Elaborate on the assessment and physiotherapy management of a child with Spina Bifida

II. Write short notes on :

(10 x 6 = 60)

1. Post polio syndrome.
2. Hydrotherapy in paediatric rehabilitation.
3. Erb's paralysis.
4. Encephalitis.
5. Tethered spinal cord.
6. Kernicterus.
7. Down syndrome.
8. Scooter board.
9. Foetal alcohol syndrome.
10. Wind swept deformity.

March 2010

[KW 708]

Sub. Code: 8108

**MASTER OF PHYSIOTHERAPY (MPT)
DEGREE EXAMINATION
(Common to New/Revised Regulation)
Elective – PAEDIATRIC NEUROLOGY
Q.P. Code : 278108**

Time : Three hours

Maximum : 100 marks

Answer All questions

Draw suitable diagrams where ever necessary

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

1. Discuss in detail the normal motor development from birth to 2 years.
2. Discuss in detail the assessment and physiotherapy management of a child with brachial plexus injury.

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

1. Development of postural control.
2. Diffuse axonal injury.
3. Gross motor function measure (GMFM).
4. Limb girdle muscular dystrophy.
5. Gait evaluation for a spastic diplegic cerebral palsy child.
6. Somato dyspraxia.
7. Neonatal assessment.
8. Swissball therapy in cerebral palsy.
9. Triwall prone stander.
10. Development of dexterity.

MAY 2011

[KY 708]

Sub. Code: 8108

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

Revised Regulation :

For candidates admitted from 2000-2001 onwards & 2005-2006 onwards

PAPER – II PHYSIOTHERAPY (Elective Subject)

PAEDIATRIC NEUROLOGY – (Elective)

Q.P. Code : 278108

Time : Three hours

Maximum : 100 marks

Answer All questions

Draw suitable diagrams where ever necessary

I. Essay Questions :

(2 x 20 = 40)

1. Discuss in detail about the neonatal assessment and developmental intervention – treatment techniques for HIGH RISK INFANT.
2. Discuss in detail the assessment and physiotherapy management of a child with TRAUMATIC BRAIN INJURY.

II. Write Short Notes :

(10 x 6 = 60)

1. Facilitatory techniques of Roods approach.
2. Clinical presentation & progression of Duchene Muscular Dystrophy.
3. Physiotherapy management of common foot deformities in spinabifida.
4. Milestones of motor development for the infancy.
5. Alberta infant motor scale.
6. Assessment of Erb's palsy.
7. Typical impairment of the child with Ataxic cerebral palsy.
8. Classification of Mental retardation.
9. Clinical presentation and investigations for viral meningitis.
10. Prescription of Paediatric wheelchair.

October 2011

[KZ 708]

Sub. Code: 8108

MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION

SECOND YEAR

PAPER – II PHYSIOTHERAPY (ELECTIVE SUBJECT)

PAEDIATRIC NEUROLOGY – (ELECTIVE)

Q.P. Code : 278108

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

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages (Max.)	Time (Max.)	Marks (Max.)
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- | | | | |
|--|----|----|----|
| 1. Discuss in detail a classification, problems associated and various neurological treatment Approaches for cerebral baby child aged about 5 yrs. | 17 | 40 | 20 |
| 2. Write in detail on infantile hemiplegic and management using motor learning process. | 17 | 40 | 20 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. Scooter Board. | 4 | 10 | 6 |
| 2. Reflexes of Newborn. | 4 | 10 | 6 |
| 3. Disorders of sensory integration. | 4 | 10 | 6 |
| 4. Gower's sign. | 4 | 10 | 6 |
| 5. CSF circulation. | 4 | 10 | 6 |
| 6. Behavioral issues on mental retarded child. | 4 | 10 | 6 |
| 7. Foetal alcohol syndrome. | 4 | 10 | 6 |
| 8. PT management in Hydrocephalus child. | 4 | 10 | 6 |
| 9. Erb's Palsy. | 4 | 10 | 6 |
| 10. Spinal reflexes. | 4 | 10 | 6 |
