

APRIL 2001

[KD 604]

**MASTER OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Fourth Semester

Paper I — P.T. IN NEUROLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe in detail the pathogenesis, symptomatology and physiotherapy management of Guillain Barre Syndrome (GBS). (20)
2. Discuss the different types of abnormal gait. (20)
3. Outline the classification of muscular dystrophies. Describe the clinical presentation of Duchenne muscular dystrophy in detail. (20)
4. Write an essay on neurologic examination and physiotherapy management of an unconscious patient. (20)

5. Write short notes on : (4 × 5 = 20)

- (a) Myelination of pyramidal tracts
- (b) Dystonia
- (c) Carpal tunnel syndrome
- (d) Dysarthria.

NOVEMBER 2001

[KE 604]

Sub. Code : 8004

**MASTER OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Paper IV — P.T. IN NEUROLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the growth and development of the Central Nervous System in man. (20)
 2. Discuss on medical, surgical and physiotherapy management of rigidity. (20)
 3. Discuss physiotherapy management of Infective Polyneuropathy. (20)
 4. Discuss Vojta technique. (20)
 5. Write short notes on : (4 × 5 = 20)
 - (a) Positioning of Cerebral Palsy Child.
 - (b) A-V shunt.
 - (c) Eaton-Lambert Syndrome.
 - (d) Lumbar puncture.
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MARCH 2002

[KG 604]

Sub. Code : 8004

**MASTER OF PHYSIOTHERAPY
DEGREE EXAMINATION.**

Second Year — New Regulation

Paper IV — P.T. IN NEUROLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the neural control of urinary bladder and its dysfunctions. (20)
 2. Describe the symptoms and involuntary movements in basal ganglia disease. (20)
 3. Discuss in detail the clinical features of cerebellar disease. (20)
 4. Discuss control and co-ordination and role of physical therapy in Re-learning the same. (20)
 5. Write short notes on : (4 × 5 = 20)
 - (a) Cheyne–Stokes respiration
 - (b) Visual evoked potentials
 - (c) Muscle spindle
 - (d) Waddling gait.
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SEPTEMBER 2002

[KII 604]

Sub. Code : 8004

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

Second Year — New Regulations

Paper IV — P.T. IN NEUROLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss pathophysiology of pain. Compare and contrast two physiotherapy modalities in pain management. (20)
 2. Discuss the role of physiotherapy in the management of cerebellar palsy. (20)
 3. Identify common neuromuscular junction lesions and muscle diseases and differentiate physiotherapy management in the two. (20)
 4. Identify three recent assessment trends for assessing upper motor neuron lesions. (20)
 5. Write short notes on : (4 × 5 = 20)
 - (a) Physiotherapy management in Polio foot
 - (b) Circumflex nerve palsy
 - (c) Laminectomy
 - (d) Clonus.
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APRIL 2003

[KI 604]

Sub. Code : 8204

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

Second Year

(New Regulations)

Paper IV — P.T. IN NEUROLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the clinical features and Etiology of parkinson's disease with physiotherapy management.(20)
2. Describe the clinical features of Guillain-Barre syndrome with its P.T. management. (20)
3. Discuss the complete rehabilitation of Level L₁ Paraplegia patient. (20)
4. Describe the Atiology, classification, signs and symptoms of myasthenia gravis with its P.T. management. (20)

5. Write short notes on :

(4 × 5 = 20)

- (a) Claw hand
 - (b) Bell's Palsy
 - (c) Foot drop
 - (d) Scissors gait in C.P.
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OCTOBER 2003

[KJ 604]

Sub. Code : 8204

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

Second Year

(New Regulations)

Paper IV — P.T. IN NEUROLOGY

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : 20 marks

M.C.Q. : Twenty minutes

**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. Essay Questions : (2 × 15 = 30)

**1. Classify common facilitatory and inhibitory
treatment techniques.**

**2. Explain the neurological afferents of basal ganglia
and write in detail about the relationship of Basal
Ganglia to movement and posture.**

II. Write short notes : (10 × 5 = 50)

1. Glasgow Coma Scale.

**2. Write a note on Hydrocephalus and its functional
sequelae.**

3. Berg Balance Scale.

**4. List down the techniques in PNF. Explain about
Rhythmic Initiation.**

**5. What is myofascial pain syndrome and explain its
management.**

**6. What is post-polio syndrome? Chart out the
management objectives.**

**7. Write briefly about vestibular stimulation
techniques in management of motor dysfunction.**

**8. What are the features of amyotrophic lateral
sclerosis? Chart out the management objective.**

9. Gait and central pattern generators.

10. Dissociated sensory loss.

APRIL 2004

[KK 604]

Sub. Code : 8204

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

Second Year

(New Regulations)

Paper IV — P.T. IN NEUROLOGY

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.

A. Essay : (2 × 15 = 30)

(1) Discuss detection and management of proximal lower motor neuron lesion.

(2) Discuss the investigations and physiotherapy management of limb girdle muscular dystrophy.

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

(1) Nerve conduction studies

(2) Management of cerebellar disorders

(3) Shoulder dysfunction in hemiplegia

(4) Autonomic dysreflexia

(5) Aphasia

(6) Developmental reflexes

(7) Bio-feedback

(8) Gait analysis in neurological disorder

(9) Functional independence measure

(10) Influence of drug management on physical therapy of a Parkinson's patient.

AUGUST 2004

[KL 604]

Sub. Code : 8204

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

Second Year

(New Regulations)

Paper IV — P.T. IN NEUROLOGY

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) Explain in detail Primitive Reflexes.

**(2) Explain in detail the stages of gait training
of a patient who has sustained Spinal Cord Injury.**

II. Write short notes : (10 × 5 = 50)

**(a) Management of Brachial Plexus injury in a
child aged 10 years.**

(b) Write a note on Heterotropic ossification.

**(c) What is asthenia? Briefly describe the
Physiotherapy management for it.**

**(d) Outline the management of Toe Clawing in
Hemiplegic Patients.**

(e) What is Arndt-Schultz Principle?

**(f) Write a note on the four steps in Motor
Relearning Program.**

**(g) What is disseminated Sclerosis? Add a note
on its management.**

**(h) What is Shy-Drager Syndrome and its
important clinical features?**

(i) Tic Douloureux.

(j) Fascioscapulohumeral Dystrophy.

FEBRUARY 2005

[KM 604]

Sub. Code : 8204

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

Second Year

(New Regulations)

Paper IV — P.T. IN NEUROLOGY

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) Compare and contrast the use of bobath and motor relearning programme in rehabilitation of stroke.

(2) Write in detail, the assessment of developmental milestones from birth to 2 years. Variation seen in a child with cerebral palsy.

II. Short notes :

(10 × 5 = 50)

(a) Surgical management and post operative physiotherapy for pituitary adenomas.

(b) Structure and function of cerebrum.

(c) Differential diagnosis of poliomyelitis and test for Nuchal spinal rigidity.

(d) Use of Nine Hole peg test.

(e) Clinical manifestation of diabetic polyneuropathy and its physiotherapy management.

(f) Use of (Computerised tomography) CT scan and MRI (Magnetic Resonance Images) in diagnosis of stroke.

(g) Explain briefly the flow of CSF (cerebro spinal fluid)

(h) Physiotherapy management of myasthenia gravis.

(i) Critique any one scale used for assessing spasticity.

(i) How do you assess an unconscious patient?

AUGUST 2005

[KN 604]

Sub. Code : 8204

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

Second Year

(New Regulations)

Paper IV — P.T. IN NEUROLOGY

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 an essay on early detection of
development neurological disorder.**

**(2) Discuss the laboratory investigations and its
interpretation in pyogenic infectious disease.**

II. Write short notes on :

(10 × 5 = 50)

- (a) Bladder dysfunction**
- (b) Neural tension test**
- (c) Motor relearning programme**
- (d) Creds maneuver**
- (e) Spinal shock**
- (f) EMG interpretation in muscle disorder**
- (g) Dysphagia**
- (h) Myotactic reflex**
- (i) Respiratory management in neuromuscular
disorder**
- (j) Assessment of spasticity.**

[KR 604]

Sub. Code : 8204

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

Second Year — New Regulations

Paper IV — P.T. IN NEUROLOGY

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.

I. Essay :

(1) What are the predisposing factors for cerebral palsy? Write in detail about the assessment and physiotherapy management of a 5 year old male child who is diagnosed to have spastic hemiparesis. (20)

(2) Write in brief about the management of myasthenia gravis. Add a note on myasthenic crisis. (15)

(3) What are gliomas? Write about the physiotherapy management of a patient who underwent a surgery for astrocytoma. (15)

II. Short notes :

(6 × 5 = 30)

(a) Spinabifida manifesta

(b) Principles of Roods Approach

(c) Myotonia congenita

(d) Management of Bacterial meningitis

(e) Amyotrophic lateral sclerosis

(f) Physical therapy management of gait abnormalities in Parkinson's disease.