

KM 921]

Sub. Code : 5176

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Sixth/Eighth Semester

(Revised/Transitory/Modified Regulations)

P.T. NEUROLOGY

**(PHYSIOTHERAPY FOR NEUROLOGY
CONDITIONS)**

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 diagram wherever necessary.

Essay :

(2 × 15 = 30)

(1) Discuss in detail the physiotherapy management of 65 year old female with Parkinson's Disease, with emphasis on home care management.

(2) Explain the clinical features and management of Sensori-motor neuropathy.

II. Write notes on :

(10 × 5 = 50)

- (a) Uses of splints.**
- (b) Principles of P.N.F technique.**
- (c) Management of Anesthetic skin.**
- (d) P.T. management in Ambulatory phase of muscular dystrophy.**
- (e) Effects of spinal traction.**
- (f) P.T. management in recovery stage in G.B.S.**
- (g) Use of tilt board in hemiplegics.**
- (h) Assessment of muscle strength.**
- (i) Claw Hand.**
- (j) Assessment of normal and abnormal gaits.**

February-2005

[KM 990]

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II. Short Notes :

(10 × 5 = 50)

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Eighth Semester

(New Modified Regulations)

Paper II — PHYSIOTHERAPY FOR NEUROLOGY
CONDITIONS

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 a treatment programme for a patient of 50 years old with left hemiplegia.

(2) Describe assessment and treatment plan for a anterior polio patient during the recovery and residual stage.

- (a) Hypertonia
- (b) Muscle re-education techniques
- (c) Splints used in peripheral nerve lesion
- (d) Mat activities
- (e) Secondary complications in cerebral palsy.
- (f) Ulnar nerve injury.
- (g) Gait training.
- (h) Co-ordination exercises
- (i) Motor function assessment
- (j) Athetosis.

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EXAMINATION.

Sixth/Eighth Semester

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P.T. NEUROLOGY

(PHYSIOTHERAPY FOR NEUROLOGY
CONDITIONS)

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

I.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagram wherever necessary.

Essay :

(2 × 15 = 30)

(1) Describe the circle of Willis and explain various types of stroke syndromes.

(2) Draw a neat diagram of Brachial plexus and explain the clinical features and management of brachial plexus lesion at trunk level involving the upper and lower trunk.

II. Short notes :

(10 × 5 = 50)

- (a) PT Management in Parkinsonism
 - (b) PT Management in Sensory ataxia
 - (c) GBS
 - (d) Median nerve palsy
 - (e) Scale for cognitive dysfunction
 - (f) Neurogenic bladder
 - (g) Spinal cord syndromes
 - (h) Care of anaesthetic foot
 - (i) Methods of balance training
 - (j) Principles of Motor Relearning programme
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BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Eighth Semester

(New Modified Regulations)

Paper II — PHYSIOTHERAPY FOR NEUROLOGY
CONDITIONS

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) Describe the PT of a case of acute transverse
myelitis at T5 spinal segment in recovery stage.

(2) Explain the principles of managing a stroke
patient in spastic stage.

II. Short notes : (10 × 5 = 50)

(a) Tests for in coordination

(b) Pyramidal tract

- (c) Clinical feature of spinal cord injury
 - (d) Syringomyelia
 - (e) Clinical feature of Parkinsonism
 - (f) Various motor facilitatory techniques
 - (g) Sciatic Nerve palsy
 - (h) Management of Pressure sores
 - (i) Care of unconscious patient
 - (j) Tests for Autonomous dysfunction
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II. Short notes :

(10 × 5 = 50)

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Sixth/Eighth Semester

(Revised/Transitory/Modified Regulations)

P.T. NEUROLOGY

**(PHYSIOTHERAPY FOR NEUROLOGY
CONDITIONS)**

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 questions :

(2 × 15 = 30)

**(1) Explain the physiotherapy management for
 L_1 vertebra fracture involving conus medullaris during
immobilisation period.**

**(2) Discuss the physiotherapy management for a
patient with Parkinson's disease in early stages of the
condition.**

- (a) Deformities of knee in cerebral palsied child.**
- (b) Rood approach.**
- (c) Principles of Frenkel's exercises.**
- (d) Wheel chair adaptations in muscular dystrophy.**
- (e) Faradic – galvanic testing.**
- (f) Median nerve injury.**
- (g) Principles of sensory re-education.**
- (h) Neurogenic bladder.**
- (i) Cortical sensations.**
- (j) Objective assessment of tone.**

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II. Short notes :

(10 × 5 = 50)

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Eighth Semester

(New Modified Regulations)

**Paper II — PHYSIOTHERAPY FOR NEUROLOGY
CONDITIONS**

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) Describe the principles of Sensory re-education. Explain the physiotherapy management after radial nerve injury at the spiral groove. (5 + 10)

(2) How do you assess a patient with cerebellar ataxia? Explain the techniques for re-education of balance and equilibrium.

- (a) Chorea
- (b) Brainstem reflexes
- (c) Wind-Swept deformity
- (d) Syringobulbia
- (e) Strength-duration curve
- (f) Autonomic dysreflexia
- (g) Rolling
- (h) Neurological gaits
- (i) Management of hypotonicity
- (j) Erb's palsy.

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**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Eighth Semester

(New Modified Regulations)

Paper II — PHYSIOTHERAPY FOR NEUROLOGY CONDITIONS

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. Essay :

1. Describe the physiotherapy management of Gait and posture in Parkinsonism. (20)

2. Describe the assessment and physiotherapy management of a patient with lateral popliteal nerve lesion. (15)

3. Describe the physiotherapy management of a patient with L₁ spinal cord lesion. (15)

II. Short notes : (6 × 5 = 30)

- (a) Spasticity and rigidity
- (b) Balance assessment
- (c) Sensory re-education in hyposensitivity
- (d) Bobath techniques in cerebral palsy
- (e) Bed transfer techniques
- (f) Trigeminal neuralgia.

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II. Short notes :

(6 × 5 = 30)

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Eighth Semester

(New Modified Regulations)

Paper II — PHYSIOTHERAPY FOR NEUROLOGY CONDITIONS

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) Write down the assessment and rehabilitation of a paraplegic male patient aged 25 years old who is in a rehabilitation centre. (10 + 10)
- (2) Describe the stages and management of duchenne muscular dystrophy. (5 + 10)
- (3) Explain the causes of Erb's Palsy. How will you manage the Erb's Palsy at acute, sub acute and chronic stages? (15)

- (a) Primitive reflexes.
- (b) Stretching.
- (c) Assessment of sensory system.
- (d) Chronic pain.
- (e) High stepping gait.
- (f) Formation of circle of Willis.

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BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Eighth Semester

(Modified/New Modified Regulations)

Paper II — PHYSIOTHERAPY FOR NEUROLOGY
CONDITIONS

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 diagram wherever necessary.

I. Essay :

(1) Describe the physiotherapy management of a patient with right sided hemiplegia of acute onset until discharge from hospital. (15)

(2) Discuss in detail the physiotherapy management of a patient with cerebellar lesion. (15)

II. Short notes :

(10 × 5 = 50)

- child
- (a) Abnormal postural reflexes in cerebral palsy
 - (b) Ilio-Tibial band contracture
 - (c) Bladder dysfunction
 - (d) Tremor
 - (e) Mat activities in paraplegia
 - (f) Gait abnormalities in neurological conditions
 - (g) Shoulder hand syndrome
 - (h) Spinal orthosis
- patient
- (i) Movement abnormalities in Parkinson's
 - (j) Primitive reflexes.

FEBRUARY 2008

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**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Eighth Semester

(Modified/New Modified Regulations)

**Paper II — PHYSIOTHERAPY FOR NEUROLOGY
CONDITIONS**

Q.P. Code : 745185

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 diagram wherever necessary.

I. Essay :

1. Discuss in detail the physiotherapy management of a patient in residual stage of poliomyelitis. (15)
2. Describe the physiotherapy management of a patient with left sided hemiplegia of recovery stage. (15)

II. Short notes :

(10 × 5 = 50)

1. Rigidity.
2. Assessment of higher functions.
3. Assessment of gait.
4. Management of chronic pain in neurological conditions.
5. Assessment of developmental reflexes.
6. Sensory reeducation.
7. Hydrotherapy for Muscular dystrophy.
8. Assessment of voluntary and automatic movements in Parkinson's disease.
9. Transfer techniques for paraplegics.
10. Appropriate aids for ambulation in patients with cerebellar lesion.

AUGUST 2008

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Sub. Code : 5185

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

**Fourth Year — Non-Semester Regulations and
Eighth Semester**

(Modified/New Modified Regulations)

PHYSIOTHERAPY FOR NEUROLOGY CONDITIONS

Q.P. Code : 745185

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagram wherever necessary.

I. Essay : (2 × 15 = 30)

- 1. Explain the typical gait abnormality seen in stroke and Parkinson's disease. Also add note on assessment and treatment of those abnormal gait. (15)**
- 2. Define spasticity. Explain in detail the assessment and physiotherapy management for spasticity. (15)**

AUGUST 2008

II. Short notes : (10 × 5 = 50)

1. Classification of peripheral nerve injuries.
2. Physiotherapy management for Guillain Barre syndrome.
3. Motor neuron disease.
4. Unconsciousness patient – physiotherapy management.
5. Neurogenic bladder.
6. Developmental management for 4 year diplegic cerepalsy boy with delayed milestones.
7. Claw hand – physiotherapy management.
8. Physiotherapy assessment for T₁₀ paraplegia.
9. Ambulatory aids used for spina bifida.
10. List the various cortical sensation and its assessment.

III. Write short answers : (10 × 2 = 20)

1. Cockup splint.
2. Upper limb D-1 flexion pattern components.
3. Types of aphasia.
4. Gokier's sign.
5. Unilateral versus bilateral approaches in neurological treatment.
6. Ankle strategy.
7. List four facilitatory technique to improve head control.
8. Glossopharyngeal breathing - technique and significance.
9. Four uses of faradic stimulation.
10. Mention two vestibular inhibition techniques and its uses.