



**MGM INSTITUTE OF HEALTH SCIENCES, NAVI MUMBAI**

(Deemed University u/s 3 of UGC Act, 1956)

**MPT UNIVERSITY EXAMINATION JULY, 2018**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION: **3 hrs**

PAPER : **PAPER – I** (Applied Sciences)

MARKS : **100**

**INSTRUCTION:**

1. All questions are compulsory and carry equal marks .
2. Answers must be specific to the questions
3. Give neat, labeled and schematic diagram wherever applicable.
4. Mobile phones, pagers, blue tooth or any other such communication devices are not allowed in the Examination premises and in all adjacent area.

**Q.1. Long Answer Questions (Compulsory):**

**60 Marks**

- A. Discuss in detail about application of assistive technology used in cerebral palsy patients.
- B. Write in detail about disability evaluation in parkinsons disease patients
- C. Describe the theories of motor learning. Discuss their application in Neurorehabilitation.

**Q.2. Short Answer Question (Compulsory):**

**40 Marks**

- A. Describe the components of fall prevention program in geriatrics
- B. What are the clinical symptoms of poliomyelitis? And write the management strategies for the same
- C. Management of a comatose patient
- D. Write the principles of PNF technique. Describe its application to improve upper function





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DURATION: **3 hrs**

PAPER : **PAPER – II (Recent Advances)**

MARKS : **100**

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**Q.1. Long Answer Questions (Compulsory):**

**60 Marks**

- A. Describe the recent advances in posture assessment
- B. Discuss in detail about advances in management of gait in various central nervous system disorders.
- C. Describe theories of motor control with reference to neurophysiological approaches.

**Q.2. Short Answer Question (Compulsory):**

**40 Marks**

- A. Describe various outcomes measures which can be applied for assessment of stroke patients
- B. Describe evidence based reviews of PNF in neuro rehabilitation
- C. Write in detail about spasticity and its evidence based Management
- D. Write briefly about evidence management in trunk instability in stroke patients.





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**MPT UNIVERSITY EXAMINATION JULY, 2018**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION: **3 hrs**

PAPER : **PAPER – III (Adult Neuro Rehabilitation)**

MARKS : **100**

**INSTRUCTION:**

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**Q.1. Long Answer Questions (Compulsory):**

**60 Marks**

- A. Describe recovery of motor control of dominant hand stroke. Describe the methods in retraining of motor control of hand in stroke
- B. Describe the pathology of multiple sclerosis. Elaborate the disability assessment and the management of a chronic multiple sclerosis patients
- C. Discuss the disability assessment and management of D 12 level paraplegia

**Q.2. Short Answer Question (Compulsory):**

**40 Marks**

- A. Describe the strategies for improving fitness of individuals with hemiparesis
- B. Describe role of spinal orthosis in individuals with spinal cord injury
- C. Describe the retraining of postural control in patients with cerebral ataxia
- D. Write a note on the management of a comatose patient following traumatic brain injury





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**MPT UNIVERSITY EXAMINATION DECEMBER, 2017**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION: **3 hrs**

PAPER : **PAPER – I (Applied Sciences)**

MARKS : **100**

**INSTRUCTION:**

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**Q.1. Long Answer Questions (Compulsory):**

**60 Marks**

- A. Discuss in details about application of assistive technology for various levels of Spinal Cord Injury patients.  
20 M
- B. Write in details about disability evaluation for a Stroke patient. 20 M
- C. Write in details on effect of aging on Nervous System. 20 M

**Q.2. Short Answer Question (Compulsory):**

**40 Marks**

- A. Write in details about caregivers training for a Spastic Diplegic child. 10 M
- B. What are the typical clinical symptoms of Duchenne Muscular Dystrophy? What are the management strategies for same? 3+7 M
- C. What are management strategies for a patient with Head Injury in Intensive Care Unit (ICU) 10 M
- D. Describe the principles of Neurodevelopmental Technique (NDT). Describe its application for supine to sitting functional activity. 4+6 M





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**MPT UNIVERSITY EXAMINATION DECEMBER, 2017**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION: **3 hrs**

PAPER : **PAPER – II (Recent Advances)**

MARKS : **100**

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**Q.1. Long Answer Questions (Compulsory):**

**60 Marks**

- |   |      |
|---|------|
| A. Discuss in detail about advances in gait assessment.   | 20 M |
| B. Discuss in detail about advances in management of changes in tone of muscles in Neurological conditions. | 20 M |
| C. Discuss Cognitive Rehabilitation.  | 20 M |

**Q.2. Short Answer Question (Compulsory):**

**40 Marks**

- |  |      |
|--|------|
| A. Describe various outcome measures which can be applied for assessment & management of Cerebral Palsy patient. | 10 M |
| B. Recent advances on Electro diagnostics used in Neuro Rehabilitation.  | 10 M |
| C. Write in details about neuropathic pain & its evidence based management.                                      | 10 M |
| D. Write briefly about evidence based management of terminally ill related to Neurological conditions.           | 10 M |





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PAPER : **PAPER – III (Adult Neuro Rehabilitation)**

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**Q.1. Long Answer Questions (Compulsory):**

**60 Marks**

- |  |      |
|--|------|
| A. Describe evidence based Physiotherapy management of stroke patient  | 20 M |
| B. Write in details about outcome measures of functional status and quality of life in adult neurorehabilitation | 20 M |
| C. Describe evidence based Physiotherapy management of D4 Spinal Cord Injury patient                             | 20 M |

**Q.2. Short Answer Question (Compulsory):**

**40 Marks**

- |  |      |
|--|------|
| A. Describe advanced electrotherapeutic management for neuropathic pain.                                   | 10 M |
| B. Write in details about observational gait analysis finding in foot drop patient with clinical reasoning | 10 M |
| C. Write about non motor impairments of Parkinson's Disease  | 10 M |
| D. Write in details about management of Upper limb nerve injury with emphasis on assistive technology      | 10 M |





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**Q.1. Long Answer Questions (Compulsory):**

**60 Marks**

- A. Write in detail about Neuro development Therapy.
- B. Discuss the PNF techniques for facial and peripheral skeletal muscles in sub acute left sided hemiplegic patient.
- C. Discuss in detail about assessment of proprioception and balance along with its management.

**Q.2. Short Answer Question (Compulsory):**

**40 Marks**

- A. Discuss theory of motor learning
- B. Genetic counseling
- C. Motor developmental Screening scales for pediatric patient.
- D. Legislation for disabled patient in India.





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MARKS : **100**

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**Q.1. Long Answer Questions (Compulsory):**

**60 Marks**

- A. Discuss in detail about recent Parkinson's Guidelines
- B. Various advanced technology used to enhance functions in terms of balance and proprioception.
- C. Recent evidences on the management of tremor.

**Q.2. Short Answer Question (Compulsory):**

**40 Marks**

- A. Gait Training using advance technology for stroke patient.
- B. Use of upper limb functional devices in spinal cord injury patient.
- C. Recent evidences on management of bladder dysfunction.
- D. Task oriented training for right hemiplegic patient.





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PAPER : **PAPER – III (Adult Neuro Rehabilitation)**

MARKS : **100**

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**Q.1. Long Answer Questions (Compulsory):**

**60 Marks**

- A. Describe evidence based Physiotherapy management of Multiple Sclerosis patient.
- B. How to assess fatigue? Describe various strategies to manage fatigue in different adult neurological conditions.
- C. Describe evidence based Physiotherapy management of all clinical features of Parkinson's Disease.

**Q.2. Short Answer Question (Compulsory):**

**40 Marks**

- A. Describe the motor learning principles and strategies used to manage trunk and upper limb in . Stroke patient with grade 3 voluntary control.
- B. Write in details about differences in parameters of Electromyography in acute and chronic neurogenic conditions.
- C. Write about Biofeedback and its importance in Adult Neuro Rehabilitation.
- D. Write in details about exercise planning and prescription for post Stroke patient.



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**MPT UNIVERSITY EXAMINATION JULY, 2017**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION: **3 hrs**

PAPER : **PAPER – III** (DEVELOPMENTAL & PEDIATRIC NEURO-REHAB)

MARKS : **100**

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**Q.1. Long Answer Questions (Compulsory):**

**60 Marks**

- A. Write in detail about possible lower limb deformities impost residual poliomyelitis with its management.
- B. Recent guidelines for the management of Spinal muscular Atrophy for 20 month old child.
- C. Write in detail about sign, symptoms and Management of DMD

**Q.2. Short Answer Question (Compulsory):**

**40 Marks**

- A. Classification of Cerebral palsy depending on tone and involvement of extremities in detail.
- B. Spina Bifida management.
- C. Neuro therapeutic approaches for management of spastic cerebral palsy patient.
- D. Use of Electro therapeutic approaches in Pediatric Rehabilitation





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**MPT UNIVERSITY EXAMINATION OCTOBER, 2016**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION: **3 hrs**

PAPER : **PAPER – I** (Applied Sciences)

MARKS : **100**

**INSTRUCTION:**

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**A. Long Questions (Compulsory):**

1. Write in details about developmental screening tools and early interventions in developing child.  
Also, discuss about their significance in neuro developmental therapy.
2. Write in details about the intensive care management of acute Stroke patient.
3. Discuss applications of motor control and motor learning theories in Neuro Rehabilitation.





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**MPT UNIVERSITY EXAMINATION OCTOBER, 2016**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION: **3 hrs**

PAPER : **PAPER – II (Recent Advances)**

MARKS : **100**

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**A. Long Questions (Compulsory):**

1. Discuss in details about general outcome measures used for adult and paediatric Neuro Rehabilitation.
2. Discuss various advanced technology used to enhance function in terms of stability and mobility in Neuro Physiotherapy.
3. Discuss about advanced electrotherapeutics in management of pain in Neuro Physiotherapy.





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DURATION: **3 hrs**

PAPER : **PAPER – III (Adult Neuro Rehabilitation)**

MARKS : **100**

**INSTRUCTION:**

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**A. Long Questions (Compulsory):**

1. A 65 year old woman, who does farming at her village home, had suffered left sided Stroke 3 days back and is admitted in ICU of a hospital. Her GCS score is 10, does not recognize people and neglects the paralytic side. Frame functional diagnosis and physiotherapy Management for the patient. Emphasize on cognitive and perceptual rehabilitation strategies in management.
2. A 30 year person had a traction injury while lifting a heavy weight on his shoulders. He is a daily wage labourer by occupation. Following the injury he is unable to lift his left shoulder beyond 30 degrees of shoulder abduction and flexion. He also complains of unable to grip any object with full strength. Give functional diagnosis and physiotherapy management for the patient. Emphasize on prescription of assistive devices.
3. Discuss the clinical features and investigations of Multiple Sclerosis. An ambulatory 55 year old man diagnosed with Multiple sclerosis has developed respiratory complications of cough and secretions which decreased his ability to walk for long distance with a cane. He is in IT sector as a professional. Write in details about functional diagnosis and PT management of this case. Emphasize on assessment and management of fatigue.



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**MPT UNIVERSITY EXAMINATION OCTOBER, 2016**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION: **3 hrs**

PAPER : **PAPER – III (DEVELOPMENTAL & PEDIATRIC NEURO-REHAB)**

MARKS : **100**

**INSTRUCTION:**

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**A. Long Questions (Compulsory):**

1. Write in details about impairments and activity limitations for major postural deformities in children. Give rationale for physiotherapy management of these conditions.
2. Parents of 5 year old Down's syndrome child with hyoptonia resulting in gait and balance disturbances report to physiotherapy department. Write in details about impairments and activity limitations of the child. Give rationale for physiotherapy management with recent advance.
3. Write recent advances on management of contractures and spasticity for cerebral palsy children. Describe various joint mobility techniques which can be applied cerebral palsy children.





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**MPT UNIVERSITY EXAMINATION APRIL, 2016**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION: **3 hrs**

PAPER : **PAPER – I** (Applied Sciences)

MARKS : **100**

**INSTRUCTION:**

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**A. Long Questions (Compulsory):**

1. Discuss the effects of aging on neuromuscular system and explain its relevance to Physiotherapist
2. Discuss the theories of motor learning
3. Describe the anatomical and physiological variation between child and adult. Give its implication to physiotherapy management.





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**MPT UNIVERSITY EXAMINATION APRIL, 2016**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION: **3 hrs**

PAPER : **PAPER – II (Recent Advances)**

MARKS : **100**

**INSTRUCTION:**

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**A. Long Questions (Compulsory):**

1. Discuss the use of multi channel EMG in 'Neuro-Physiotherapy'
2. Discuss advances in assessment of balance disturbances in conditions commonly referred to Physiotherapists
3. Discuss various methods that can be utilized to assess and enhance voluntary control





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**MPT UNIVERSITY EXAMINATION APRIL, 2016**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION: **3 hrs**

PAPER : **PAPER – III** (Adult Neuro Rehabilitation)

MARKS : **100**

**INSTRUCTION:**

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**A. Long Questions (Compulsory):**

1. Discuss in details the assessment and management in case of 'young stroke'.
2. Discuss in detail about the assessment and management in case of quadriplegia following trauma.
3. Discuss principles of Physiotherapy in cases of acute flaccid paralysis



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**MPT UNIVERSITY EXAMINATION APRIL, 2016**

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SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION: **3 hrs**

PAPER : **PAPER – III** (DEVELOPMENTAL & PEDIATRIC NEURO-REHAB)

MARKS : **100**

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**A. Long Questions (Compulsory):**

1. Discuss and classify Brachial Plexus injury in children. How would you assess a child with Brachial Plexus injury? Describe the role of Physiotherapy in its management.
2. Describe methods early identification of “at risk” babies of neurological dysfunction. Write about role and the methods of early intervention. Describe care giver instructions.
3. Write an essay on the role of physiotherapist in pre-operative assessment of a child with cerebral palsy with “crouch gait” with cerebral palsy. Write about the post operative management.





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**M.P.Th – II UNIVERSITY EXAMINATION APRIL, 2015**

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DURATION: **3 hrs**

PAPER : **PAPER – I** (Applied Sciences)

MARKS : **100**

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**A. Long Questions (Compulsory):**

1. Describe “Disability Evaluation” for a a adult patient with post polio residual paralysis of trunk and both lower limbs. What is the necessity of Disability Evaluation? Describe the role of Physical therapist in Disability Evaluation.
2. Describe the need of Assistive technology for a person with spinal cord injury. Describe the need and suggestions for home and environmental modifications.
3. Describe Evoked Potential studies. Discuss its role in peripheral nerve disorders.





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DURATION: **3 hrs**

PAPER : **PAPER – II** (Recent Advances)

MARKS : **100**

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**A. Long Questions (Compulsory):**

1. Describe methods of “Foot Pressure Analysis” with reference to Diabetic Patients. Discuss the uses in clinical practice and research.
2. Describe rationale of “Body weight support Treadmill training” in persons with spinal cord Injury. Describe the methods . Discuss the advantages and disadvantages over other gait training techniques.
3. Describe the use of Technology for the Assessment & Training of Balance dysfunction.





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DURATION: **3 hrs**

PAPER : **PAPER – III (Adult Neuro Rehabilitation)**

MARKS : **100**

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**A. Long Questions (Compulsory):**

1. Discuss the causes of Cerebellar disorders and principles of Physiotherapeutic management.
2. Describe the impairments and activity limitations of upper extremity in Stroke patients. Discuss the rationale of Physiotherapeutic management. Describe the role of Orthosis.
3. Discuss the rationale & need of “Fall prevention” in the elderly. Describe the Physiotherapeutic methods of prevention and management of falls.





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DURATION: **3 hrs**

PAPER : **PAPER – I (Applied Sciences)**

MARKS : **100**

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**A. Long Questions (Compulsory):**

1. Write about Respiratory treatment plan for a person with Tetraplegia following a diving accident. Write about indications and contraindications of postural drainage, percussion and vibration and assisted cough techniques in persons with SCI-Tetraplegia. Describe safe evacuation, handling of persons with RTA and cervical spine injury.
2. Describe rationale of early mobilization in Stroke. Discuss about strategies to improve manipulation and strengthening of lower limbs. Write briefly about Fugl-Meyer Assessment.
3. Discuss on use of assistive technology for a person with motor neuron disease who is now non-ambulatory. Write about accessible home modifications, aids to safe lifting and transportation, pressure relief aids and environmental control units.





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**A. Long Questions (Compulsory):**

1. Write about use of Virtual technology to improve motor performance. Write about use of computer technology, devices to enhance Balance.
2. Write about advances in Spasticity management. Write about management in Stroke, upper and lower limb with botulinum toxin.
3. Write about gait analysis and setting up of a laboratory to study gait kinetics and kinematics. Write about studying energy cost of ambulation. Write briefly about abnormal gaits in neurological conditions.





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**PAPER : PAPER – III (Adult Neuro Rehabilitation)**

**MARKS : 100**

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**A. Long Questions (Compulsory):**

1. Write about Physiotherapy assessment of Peripheral neuropathy and Electrodiagnosis. Write about complications of peripheral neuropathy and management of diabetic foot.
2. Write about the current techniques in neurorehabilitation with its current base of evidence. What briefly about basis of neuroplasticity and recovery in CNS.
3. Write about Pathophysiology of pain and pain management in terms of physiotherapeutic, pharmacological and surgical aspects. Briefly write about pain management in trigeminal neuralgia and reflex sympathetic dystrophy.





**MGM INSTITUTE OF HEALTH SCIENCES, NAVI MUMBAI**

(Deemed University u/s 3 of UGC Act, 1956)

**M.P.Th – II UNIVERSITY EXAMINATION DECEMBER, 2013**

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SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION : **3 hrs**

PAPER : **PAPER – I** (Applied Sciences)

MARKS : **100**

**INSTRUCTION:**

1. All questions are compulsory and carry equal marks
  2. Answers must be specific to the questions
  3. Give neat, labeled and schematic diagram wherever applicable.
  4. Mobile phones, pagers, blue tooth or any other such communication devices are not allowed in the Examination premises and in all adjacent area.
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**A. Long Questions (Compulsory):**

- 1 Write about neurological conditions that can cause loss of Balance? Write about strategies to prevent falls in the elderly. Write about outcome measures for Balance?
- 2 A person with SCI - tetraplegia has good triceps, is overweight. Describe strategies for transfers with assistive devices from bed to wheelchair. Describe role of cushions in pressure relief in lying and sitting? What would be the aim and objective of a posture and seating clinic for SCI.
- 3 A young person had RTA, a known case of Alcoholism, has Traumatic Brain Injury and left hemiplegia, grade 3 spasticity, associated rib fractures. Describe physiotherapy management of spasticity and pulmonary management. How will you manage depression?





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**M.P.Th – II UNIVERSITY EXAMINATION DECEMBER, 2013**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION : **3 hrs**

PAPER : **PAPER – II (Recent Advances)**

MARKS : **100**

**INSTRUCTION:**

1. All questions are compulsory and carry equal marks
2. Answers must be specific to the questions
3. Give neat, labeled and schematic diagram wherever applicable.
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**A. Long Questions (Compulsory):**

1. Write about role of Intrathecal Baclofen Pump, Rhizotomy and Deep Brain Stimulation in management of spasticity and movement disorders.
2. What is Neurophysiological basis of recovery in CNS ? Write about stem cell therapy and its current evidence? What is the basis of CIMT?
3. What are advances in in studying gait deviations, studying seating pressures, and foot pressure measurements. Write briefly about FES and Lokomat?





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**M.P.Th – II UNIVERSITY EXAMINATION DECEMBER, 2013**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION : **3 hrs**

PAPER : **PAPER – III (Adult Neuro Rehabilitation)**

MARKS : **100**

**INSTRUCTION:**

1. All questions are compulsory and carry equal marks
2. Answers must be specific to the questions
3. Give neat, labeled and schematic diagram wherever applicable.
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**A. Long Questions (Compulsory):**

1. Describe pathophysiology of Parkinson 's disease, and its differential diagnosis? Discuss physiotherapy management of gait? Write about UPDRS?
2. Write about Bladder management in SCI ? Describe management of osteopenia, spasms? Write about Spinal Cord Independence Measure?
3. A young person has right hemiplegia and speech affection, pain in the right shoulder. Write about management of painful shoulder, and strategies to improve upper limb function? Describe orthosis and their indication for shoulder, wrist and ankle in stroke?





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**M.P.Th – II UNIVERSITY EXAMINATION DECEMBER, 2013**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION : **3 hrs**

PAPER : **PAPER – III** (Developmental & Pediatric Neuro Rehabilitation) MARKS : **100**

**INSTRUCTION:**

1. All questions are compulsory
2. Answers must be specific to the questions
3. Give neat, labeled and schematic diagram wherever applicable.
4. Mobile phones, pagers, blue tooth or any other such communication devices are not allowed in the Examination premises and in all adjacent area.

**A. Long Questions (Compulsory):**

1. Write about fitness training in an adult who has CP Diplegia. He also has knee pain and pain due to hallux valgus, describe its management write briefly about orthosis in lower limb, giving one indication for its use.
2. A young adult with DMD is terminally ill. Describe physiotherapy management-physical-respiratory, intugementary, musculoskeletal? How you will deal with stress out syndrome of parents? Write about Vignos classification?
3. A 1 year old is not able to use right hand since birth, arm stays turned inwards, birth weight was more than normal. Describe the condition and differential diagnosis. Describe physiotherapeutic and surgical management of the condition/what is Mallet score?





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**M.P.Th – II UNIVERSITY EXAMINATION APRIL 2013**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION : **3 hrs**

PAPER : **PAPER – I** (Applied Sciences)

MARKS : **100**

**INSTRUCTION:**

1. All questions are compulsory and carry equal marks
2. Answers must be specific to the questions
3. Give neat, labeled and schematic diagram wherever applicable.
4. Mobile phones, pagers, blue tooth or any other such communication devices are not allowed in the Examination premises and in all adjacent area.

1. Discuss the relation of vertebral level to cord segment. Explain the importance of this to a Physiotherapist write about Bladder management in SCI.
2. Discuss the classifications of nerve injuries and give its relevance to a Physiotherapist. Describe management of claw hand in leprosy.
3. Discuss the effects of aging on neuromuscular system and explain its relevance to a Physiotherapist. Write about assistive technology for Transfers of a non – ambulatory adult.





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(Deemed University u/s 3 of UGC Act, 1956)

**M.P.Th – II UNIVERSITY EXAMINATION APRIL 2013**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION : **3 hrs**

PAPER : **PAPER – II** (Recent Advances)

MARKS : **100**

**INSTRUCTION:**

1. All questions are compulsory and carry equal marks
2. Answers must be specific to the questions
3. Give neat, labeled and schematic diagram wherever applicable.
4. Mobile phones, pagers, blue tooth or any other such communication devices are not allowed in the Examination premises and in all adjacent area.

1. Discuss various schools of thoughts of Physiotherapy management and its significance in treatment of neurological conditions with examples.
2. Discuss the role of Physiotherapy in 'movement disorders', write briefly about Pharmacological and surgical management in one condition.
3. Discuss principles of Physiotherapy in cases of acute flaccid paralysis, and write about advances in Respiratory management of a person on ventilator.





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**M.P.Th – II UNIVERSITY EXAMINATION APRIL 2013**

SPECIALITY SUBJECT: **NEURO PHYSIOTHERAPY**

DURATION : **3 hrs**

PAPER : **PAPER – III** (Adult Neuro Rehabilitation)

MARKS : **100**

**INSTRUCTION:**

1. All questions are compulsory and carry equal marks
2. Answers must be specific to the questions
3. Give neat, labeled and schematic diagram wherever applicable.
4. Mobile phones, pagers, blue tooth or any other such communication devices are not allowed in the Examination premises and in all adjacent area.

**A. Long Questions (Compulsory):**

1. A young person has RTA and Right Hemiplegia and communication difficulty, and perceptual problems, Describe management of the sensori – motor problems. Write about Fugl-Meyer Assessment of Sensorimotor Recovery After Stroke.
2. Describe Patho-physiology of ALS? Write about Differential Diagnosis, write about management of posture and seating in a wheel-chair for person with ALS. What is customized seating for wheel-chairs?
3. Name the major neuropathic syndromes/ conditions? Describe medical and physiotherapy management of Diabetic neuropathy? Describe briefly about prosthetic management of Symes, Choparts and Lisfranc amputations.