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

**[LQ 1019]** NOVEMBER 2020 **Sub. Code: 8172**

(MAY 2020 SESSION)

**MPT DEGREE EXAMINATION**
**SECOND YEAR**
**BRANCH II – PHYSIOTHERAPY IN NEUROLOGY**
**SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT**
***Q.P. Code : 278172***

**Time : Three hours** **Maximum : 100 Marks**

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

1. Describe in detail about the assessment of cranial nerve integrity.

2. Describe in detail about the movement analysis of individual components of the body and functional mobility skills based on different neuro concepts.

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

1. Neuro muscular junction.
2. Cortical motor system.
3. Late responses.
4. Apraxia.
5. Assessment of cognitive function.
6. Assessment of balance.
7. Abnormalities of bladder and bowl function.
8. Assessment of coordination.
9. Gait analysis.
10. Blood supply of the brain.

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

**[MPT 0321]** MARCH 2021 **Sub. Code: 8172**

(OCTOBER 2020 EXAM SESSION)

**MPT DEGREE EXAMINATION**

**SECOND YEAR – (From the Academic Year 2018-2019)**

**BRANCH II – PHYSIOTHERAPY IN NEUROLOGY**

**SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT**

***Q.P. Code : 278172***

**Time : Three hours** **Maximum : 100 Marks**

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

1. Describe the limbic system. Explain the control of motor activity of brainstem that regulate and coordinate the movements.

2. Define Electro Myography. Explain in detail the various normal and abnormal Motor unit action potentials.

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

1. Times up and go test.
2. Muscle biopsy.
3. Assessment of sensation.
4. Assessment of multiple sclerosis.
5. Assessment of Development Milestone.
6. Fine motor coordination.
7. Learning disorder.
8. Blood supply of brain.
9. TB spine.
10. Marie foix reflex.

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

**[MPT 0921]** **SEPTEMBER 2021** **Sub. Code: 8172**
**(MAY 2021 EXAM SESSION)**

**MPT DEGREE EXAMINATION**
**SECOND YEAR - (Regulations for the candidates admitted from 2018-2019)**
**SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT**
**BRANCH II – PHYSIOTHERAPY IN NEUROLOGY**
***Q.P. Code : 278172***

**Time : Three hours** **Answer ALL Questions** **Maximum : 100 Marks**

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

1. Describe in detail the development on Nervous System.

2. Write a detailed account of assessment and treatment plan of a 50 year old patient with stroke involving Right middle cerebral artery?

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

1. Barthel Index.
2. Principles of evidence based practice.
3. Assessment of Balance.
4. Assistive devices in cerebral palsy.
5. Behavioural disorder in ageing.
6. Motor nerve conduction study.
7. Sacral sparing & its implication.
8. Craniovertebral junction anomalie.
9. Cognitive assessment in TBI.
10. Assessment of learning disorders.

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

**[MPT 0222]** **FEBRUARY 2022** **Sub. Code: 8172**
**(OCTOBER 2021 EXAM SESSION)**

**MPT DEGREE EXAMINATION**
**SECOND YEAR - (Regulations for the candidates admitted from 2018-2019)**
**SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT**
**BRANCH II – PHYSIOTHERAPY IN NEUROLOGY**
***Q.P. Code : 278172***

**Time : Three hours** **Answer ALL Questions** **Maximum : 100 Marks**

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

1. Explain in detail the neural Control of locomotion.
2. Enumerate the clinical signs & symptoms of cerebellar lesion & its P.T. assessment.

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

1. Muscle tone & its abnormalities.
2. Assessment of primitive reflexes.
3. Assessment of postural reflexes.
4. ICF coding.
5. Gross motor Co-ordination.
6. Hoehn - Yahr Grading.
7. Intervention strategies in Architectural barriers.
8. Scales to quantify cognitive function.
9. Somato Sensory evoked potential.
10. Documenting plan of care.

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

**[MPT 0622]** **JUNE 2022** **Sub. Code: 8172**

**(MAY 2022 EXAM SESSION)**

**MPT DEGREE EXAMINATION**
**SECOND YEAR - (Regulations for the candidates admitted from 2018-2019)**
**SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT**
**BRANCH II – PHYSIOTHERAPY IN NEUROLOGY**
***Q.P. Code : 278172***

**Time : Three hours** **Answer ALL Questions** **Maximum : 100 Marks**

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

1. Write about the need and purpose of physiotherapy assessment. Add a note on the preferred patterns of practice in physiotherapy.

2. Write in detail the appropriate features, complications and complete physiotherapy assessment of patient with T6 vertebral fracture with spinal cord injury.

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

1. Intervention strategies in Architectural Barrier.
2. Pain Gate Theory.
3. Myasthenia gravis.
4. Assessment of cranial nerves.
5. Berg Balance Scale.
6. Behavioral disorders in ageing.
7. Vestibular disorders.
8. Voluntary control assessment for hand.
9. Role of EMG biofeedback in neurological rehabilitation.
10. Assessment of vital signs.

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

**[MPT 0223]** **FEBRUARY 2023** **Sub. Code: 8172**
**(OCTOBER 2022 EXAM SESSION)**

**MPT DEGREE EXAMINATION**
**SECOND YEAR - (Regulations for the candidates admitted from the academic year 2018-2019)**
**SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT**
**BRANCH II – PHYSIOTHERAPY IN NEUROLOGY**

***Q.P. Code : 278172***

**Time : Three hours** **Answer ALL Questions** **Maximum : 100 Marks**

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

1. Describe both central and peripheral sensory and motor components of the postural control system.

2. Identify patient problems based on the examination, establish appropriate goals, and plan individualized treatment programs for patients with a spinal cord injury at C4 level.

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

1. Assessment of cognitive function.
2. CSF examination as a Neuro Diagnostic Tests.
3. Abnormal skeletal muscle reflexes.
4. Assessment of sensory integrity.
5. Adverse effects of immobilization on the musculoskeletal system.
6. Berg balance scale.
7. Functional capacity evaluation for patients with neurological impairments.
8. Autonomic nervous system function assessment.
9. Fifth and seventh cranial nerve assessment.
10. Cranio - vertebral junction anomalies.

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

**[MPT 0523]** **MAY 2023** **Sub. Code: 8172**

**MPT DEGREE EXAMINATION**
**SECOND YEAR - (Regulations for the candidates admitted from the academic year 2018-2019)**
**SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT**
**BRANCH II – PHYSIOTHERAPY IN NEUROLOGY**

***Q.P. Code: 278172***

**Time : Three hours** **Answer ALL Questions** **Maximum : 100 Marks**

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

1. Write in detail about systems assessment of various components of Balance.
2. Identify the spinal pathways that mediate sensation and describe the examination of sensory function and how the data from the examination of sensory function is used by the physical therapist?

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

1. Differentiate between spasticity and rigidity. How should each be examined?
2. Involuntary movements.
3. Abnormalities in swallowing.
4. Primitive reflexes.
5. Assessment of patients with assistive devices.
6. Neural tube defects.
7. The Berg Balance Scale.
8. Describe the examination of a hyperactive patellar deep tendon reflex. What scores are used to document an increased DTR?
9. Differentiate between recovery of function and compensation.
10. Electromyography.

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

**[MPT 1223]** **DECEMBER 2023** **Sub. Code: 8172**
**(OCTOBER 2023 EXAM SESSION)**

**MPT DEGREE EXAMINATION**
**SECOND YEAR - (Regulations for the candidates admitted from the academic year 2018-2019)**
**SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT**
**BRANCH II – PHYSIOTHERAPY IN NEUROLOGY**

***Q.P. Code: 278172***

**Time: Three hours** **Answer ALL Questions** **Maximum: 100 Marks**

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

1. Write in detail about the clinical features, complications and Physiotherapy assessment of Duchenne muscular dystrophy.

2. Discuss in detail about the clinical features and assessment of cerebrovascular disease.

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

1. Alzheimer's disease.
2. Barthel index.
3. ICF coding.
4. Late responses.
5. Apraxia.
6. Assessment of coordination.
7. Neuromuscular junction.
8. Autonomic nervous system.
9. Eighth and ninth cranial nerve assessment.
10. Assessment of speech.

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

**[MPT 0524]** **MAY 2024** **Sub. Code: 8172**

**MPT DEGREE EXAMINATION**
**SECOND YEAR - (Regulations for the candidates admitted from the academic year 2018-2019)**
**SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT**
**BRANCH II – PHYSIOTHERAPY IN NEUROLOGY**

***Q.P. Code: 278172***

**Time: Three hours** **Answer ALL Questions** **Maximum: 100 Marks**

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

1. Write in detail about the gait cycle and both kinetic and kinematic analyses of gait.

2. Write in detail about the assessment of 5 year old boy with clinical presentations of severe Duchenne muscular dystrophy.

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

1. Involuntary movements.
2. Assessment of coordination.
3. Disorders of speech.
4. Documenting the physiotherapy examination.
5. NMJ and edrophonium test.
6. H-reflex.
7. Spina bifida.
8. Assessment of $7^{th}$ cranial nerve.
9. Postural assessment.
10. Blood supply of brain.

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

**[MPT 1024]** **OCTOBER 2024** **Sub. Code: 8172**

**MPT DEGREE EXAMINATION**
**SECOND YEAR - (Regulations for the candidates admitted from the academic year 2018-2019)**
**SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT**
**BRANCH II – PHYSIOTHERAPY IN NEUROLOGY**

***Q.P. Code: 278172***

**Time: Three hours** **Answer ALL Questions** **Maximum: 100 Marks**

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

1. Write in detail about assessment of reflex integrity.
2. Elaborate the physiotherapy assessment of 30 years old woman with multiple sclerosis.

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

1. Locked-in syndrome.
2. Post-traumatic stress disorder.
3. Assessment of level of consciousness.
4. Lower limb tension test.
5. Limb girdle dystrophy.
6. Assessment of fatigue.
7. Assessment of nystagmus.
8. Assessment of reach and grasp control.
9. Myasthenia gravis.
10. Stroke Impact Scale.

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

**[MPT 0525]** **MAY 2025** **Sub. Code: 8172**

**MPT DEGREE EXAMINATION**
**SECOND YEAR - (Candidates admitted 2018-2019 onwards)**
**SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT**
**BRANCH II – PHYSIOTHERAPY IN NEUROLOGY**

***Q.P. Code: 278172***

**Time: Three hours** **Answer ALL Questions** **Maximum: 100 Marks**

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

1. Explain in detail about the various neuro diagnostic tests.

2. Write in detail about the clinical features and physiotherapy assessment of cerebral palsy.

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

1. Assessment of balance.
2. Spinal reflexes.
3. Functional independence measure.
4. Duchenne muscular dystrophy.
5. Assessment of learning disorders.
6. Paraplegia.
7. Test of autonomic dysfunction.
8. Assessment of vestibular system.
9. Assessment of perceptual functions.
10. Work hardening programs for patients with neurological impairments.

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

**[MPT 1025]** **OCTOBER 2025** **Sub. Code: 8172**

**MPT DEGREE EXAMINATION**
**SECOND YEAR - (Candidates admitted 2018-2019 onwards)**
**SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT**
**BRANCH II – PHYSIOTHERAPY IN NEUROLOGY**

***Q.P. Code: 278172***

**Time: Three hours** **Answer ALL Questions** **Maximum: 100 Marks**

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

1. Discuss the main components of gait assessment in children with cerebral palsy. Explain why evaluation gait parameter is important in their rehabilitation and describe common approaches used to analyze gait abnormalities in this population.
2. Describe the essential elements of physiotherapy assessment in patients with traumatic brain injury. Focus on the evaluation of cognitive, motor and functional abilities to inform rehabilitation strategies.

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

1. Brief the significance of superficial reflexes in stroke patients.
2. What are all the postural strategies in balance assessment?
3. Timed Up and Go (TUG) Test.
4. What is nagi model of disability?
5. Explain psychosocial wellness.
6. Briefly describe the limbic system's relevance in rehabilitation.
7. Explain the significance of blink reflex.
8. Explain asymmetrical tonic neck reflex and its clinical significance.
9. Glasgow coma scale.
10. Explain any two assistive devices and their purpose in neuro rehabilitation.

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