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

[BPT 0122] JANUARY 2022 Sub. Code: 6288
(AUGUST 2021 EXAM SESSION)

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FOURTH YEAR- (Regulation from 2017-2018 onwards)
PAPER II – P.T. IN NEUROLOGY
Q.P. Code : 746288

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

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss in detail about the causes, etiology, assessment and management for 70 year old man affected by Parkinson's disease.
2. Discuss in detail about assessment and management of Guillain Barre Syndrome in recovery stage.

II. Write notes on: **(10 x 5 = 50)**

1. Abnormal gaits.
2. Brown sequard syndrome.
3. Circle of Willis.
4. Deformities seen in poliomyelitis.
5. Architectural barriers in Muscular Dystrophy.
6. Spina bifida.
7. Benefits of standing training in CP.
8. Splints used in upper limb.
9. Sudeck's atrophy.
10. Neurogenic bladder.

III. Short answer on: **(10 x 2 = 20)**

1. Superficial reflexes.
2. Hyperpathia.
3. Assessment of limb length.
4. Akinesia.
5. STNR.
6. Tinel's sign.
7. Pyramidal tract.
8. Pusher syndrome.
9. Shaking palsy.
10. Carotid bruit.

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

[BPT 0622] JUNE 2022 Sub. Code: 6288

(FEBRUARY 2022 EXAM SESSION)

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE

FOURTH YEAR- (Regulation from 2017-2018 onwards)

PAPER II – P.T. IN NEUROLOGY

Q.P. Code : 746288

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

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss in detail about Physiotherapy Assessment and management Erb's palsy in Brachial plexus Injury.

2. Discuss in detail about Physiotherapy Assessment & Management of Guillain Barre syndrome at Recovery state.

II. Write notes on: **(10 x 5 = 50)**

1. PNF Technique.
2. Motor Relearning.
3. Clinical features assessment and management of poliomyelitis.
4. Rood Approach.
5. Glasgow coma scale.
6. Blood supply of the brain.
7. Management of Median nerve injury.
8. Ambulatory aids in neurological rehabilitation.
9. Coordination assessment.
10. Progressive bulbar palsy.

III. Short answer on: **(10 x 2 = 20)**

1. Neuroma.
2. Plantar response.
3. ATNR.
4. Dysmetria.
5. PONS.
6. Function of pyramidal tract.
7. GBS (Guillain Barre Syndrome).
8. LMN lesion.
9. Horner's syndrome.
10. Bladder dysfunction.

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

[BPT 1022] **OCTOBER 2022** **Sub. Code: 6288**

(AUGUST 2022 EXAM SESSION)

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE

FOURTH YEAR- (Regulation from 2017-2018 onwards)

PAPER II – P.T. IN NEUROLOGY

Q.P. Code : 746288

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

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss the various impairments and its specific assessment and tests for Cerebellar Ataxia.

2. Describe the P.T assessment and management for 14 year old boy diagnosed on Duchenne Muscular Dystrophy and bound to wheelchair.

II. Write notes on: **(10 x 5 = 50)**

1. Complications of Stroke.
2. Diabetic Neuropathy.
3. Motor learning.
4. Hemiplegic gait.
5. Klumpke's palsy.
6. Early intervention for Cerebral palsy.
7. Spasticity- P.T management.
8. Coma stimulation therapy.
9. Prognosis in Spinal Cord Injury.
10. Balance Assessment.

III. Short answer on: **(10 x 2 = 20)**

1. Constraint induced movement therapy.
2. Rhythmic initiation.
3. Tarsal tunnel syndrome.
4. Vestibular ball.
5. Ideomotor Apraxia.
6. P.T role in myasthenia gravis.
7. Ontogenic patterns.
8. Exercises for rigidity.
9. Locked in Syndrome.
10. VI cranial nerve testing.

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

[BPT 0423] APRIL 2023 Sub. Code: 6288
(FEBRUARY 2023 EXAM SESSION)

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FOURTH YEAR - (Regulation from 2017-2018 onwards)
PAPER II – P.T. IN NEUROLOGY

Q.P. Code: 746288

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

I. Elaborate on: **(2 x 15 = 30)**

1. Write in detail physiotherapy assessment and management Myasthenia Gravis.

2. Discuss in detail physiotherapy assessment and management of Duchenne Muscular Dystrophy patients.

II. Write notes on: **(10 x 5 = 50)**

1. Cognitive Impairment in stroke.
2. Ataxic cerebral palsy.
3. Physiotherapy assessment and management for complete Ulnar nerve lesion of one-week duration.
4. Sensory assessment.
5. Tabes dorsalis.
6. Guillian Bare Syndrome.
7. Post polio syndrome.
8. Assessment of gait.
9. Multiple sclerosis.
10. Brachial neuralgia.

III. Short answer on: **(10 x 2 = 20)**

1. Shoulder hand syndrome.
2. Sialorrhoea.
3. Thermoregulatory dysfunction.
4. Horner syndrome.
5. Write any two neonatal reflexes.
6. Battle’s sign.
7. Weber syndrome.
8. Proprioceptive Neuromuscular Facilitation.
9. Vestibular ball.
10. Chronic pain.

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

[BPT 1123] **NOVEMBER 2023** **Sub. Code: 6288**
(AUGUST 2023 EXAM SESSION)

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FOURTH YEAR - (Regulation from 2017-2018 onwards)
PAPER II – P.T. IN NEUROLOGY

Q.P. Code: 746288

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

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss in detail P.T Assessment and Management of 8 years old girl child with Spastic Cerebral Palsy.

2. Define Brachial Plexus Injury. Discuss in detail P.T Assessment and Management for Total Brachial Plexus Injury.

II. Write notes on: **(10 x 5 = 50)**

1. Evaluation of Low Back Pain Syndrome.
2. Swiss ball and its uses in Neurological patients.
3. P.T Assessment of Cauda Equina Lesions.
4. Principles of Motor Learning Program.
5. Mat activities for Functional Re-education.
6. Assessment of Combined Cortical Sensations.
7. Gait training in Parkinsonism.
8. P.T management of Pressure sores.
9. P.T management of Tonal Abnormalities.
10. P.T management of Balance dysfunction.

III. Short answer on: **(10 x 2 = 20)**

1. Righting reactions.
2. Dyskinesias.
3. High stepping gait.
4. Disability grading scales used in Parkinsonism.
5. Exercises used for bladder training.
6. Common deformities seen in Polio.
7. Tinel’s sign.
8. Define Clonus.
9. What is Synapse?
10. Shoulder hand Syndrome.

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

[BPT 0824] **AUGUST 2024** **Sub. Code: 6288**

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FOURTH YEAR - (Regulation from 2017-2018 onwards)
PAPER II – P.T. IN NEUROLOGY

Q.P. Code: 746288

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

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss in detail about Physiotherapy Assessment for 50 years old man with Posterior Inferior Cerebellar Artery Stroke.

2. Discuss brainstem reflexes and add note on various strategies for improving and training trunk control in a two year old diplegic cerebral palsy child.

II. Write notes on: **(10 x 5 = 50)**

1. Myelomeningocele – PT assessment.
2. Home exercise program for neonatal Erb's palsy.
3. Limb girdle Dystrophy - PT Assessment and Goals.
4. C5 Quadriplegic Bed mobility and respiratory training.
5. Bobath approach – Principles and Applications.
6. Rancho Los Amigo's Scale of Functioning in Head Injury.
7. P.T. management for Post Surgical Meningioma.
8. Stage III Parkinsons disease Exercise Program.
9. Gait training for Complete Paraplegia.
10. Principles of sensory re-education protocols.

III. Short answer on: **(10 x 2 = 20)**

1. Aneurysm.
2. Ophthalmoplegia.
3. Beevor's sign.
4. Uses of Quick Icing in Neuro Rehab.
5. Locked in Syndrome.
6. Glascow coma scale.
7. Moro reflex.
8. Arnold Chiari Malformation PT implications.
9. Agnosia.
10. Crede's Maneuver.

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

[BPT 0225] **FEBRUARY 2025** **Sub. Code: 6288**

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FOURTH YEAR - (Regulation from 2017-2018 onwards)
PAPER II – P.T. IN NEUROLOGY

Q.P. Code: 746288

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

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss in detail about Physiotherapy assessment and management for a person with Head Injury in Persistent Vegetative state.

2. Define Spasticity. Explain in detail the assessment and physiotherapy management for spastic lower limbs in Multiple Sclerosis.

II. Write notes on: **(10 x 5 = 50)**

1. Hemiplegic shoulder – PT Management.
2. Flaccid Cerebral palsy – PT Handling and developmental intervention.
3. Gait training for athetoid Cerebral Palsy.
4. Brunnstrom's Recovery Stages for upper limb and lower limb.
5. Dermatomes and its Implications.
6. Motor reeducation after post-surgical tendon transfer in Brachial plexus Injury.
7. Types of transfers used in Neurological Rehabilitation.
8. Post Polio Syndrome Diagnostic criteria and PT Implications.
9. Strategies to overcome Bradykinesia during functional tasks.
10. Home exercise program for Motor Neuron disease.

III. Short answer on: **(10 x 2 = 20)**

1. Dysphagia.
2. Mental Imagery.
3. Electromyography.
4. Upper limb Tension Test-3.
5. Facial Synkinesis.
6. Complications of Total Brachial Plexus Injury.
7. Brudzinski's sign.
8. Thalamic syndrome.
9. Rhythmic stabilization.
10. Tonic Labyrinthine reflex.

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

[BPT 0825] **AUGUST 2025** **Sub. Code: 6288**

BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FOURTH YEAR - (Regulation from 2017-2018 onwards)
PAPER II – P.T. IN NEUROLOGY

Q.P. Code: 746288

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

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss in detail about Physiotherapy assessment for twenty years old T10 complete Spinal Cord injury patient in late recovery stage.

2. Discuss in detail about Physiotherapy assessment and management of a 25 years old with multiple sclerosis.

II. Write notes on: **(10 x 5 = 50)**

1. Diabetic foot – PT Management.
2. Pediatric approaches and techniques.
3. EMG biofeedback.
4. Gait assessment for Parkinson's disease.
5. Vestibular training.
6. Pathophysiology and P.T treatment of Myasthenia Gravis.
7. List Entrapment neuropathies and role of Physiotherapy management.
8. Home exercise program for Parkinson's disease.
9. Complications of Motor Neuron Disease and its P.T management.
10. Physiotherapy Treatment techniques for Spastic Hand.

III. Short answer on: **(10 x 2 = 20)**

1. Hoffmann Sign.
2. Hemianopia.
3. Slump test.
4. Rebound phenomenon.
5. Upper limb Complications of Hemiplegia.
6. Myoclonus.
7. Reciprocating gait orthosis.
8. Positive Supporting reaction.
9. Glioma.
10. Key Points of Motor Control.

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