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

[MD 0524] **MAY 2024** **Sub. Code: 4055**

M.D. DEGREE EXAMINATION

BRANCH XIX – PHYSICAL MEDICINE AND REHABILITATION

PAPER III – PRINCIPLES AND PRACTICE OF REHABILITATION MANAGEMENT OF NEUROLOGICAL, CARDIO PULMONARY AND OTHER CONDITIONS

Q.P. Code: 204055

Time: Three Hours **Maximum: 100 Marks**

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

1. Discuss the pulmonary complications and their management in patients with acute and chronic cervical spinal cord injury.

2. Discuss the rehabilitation of a 70-year-old chronic diabetic transfemoral amputee. Prescribe an appropriate prosthesis for him in a rural and urban setup.

II. Write notes on: **(10 x 7 = 70)**

1. Endocrine Dysfunction associated with traumatic brain injury.
2. Diaphragmatic pacing.
3. Exercise in chronic obstructive pulmonary disease.
4. Bedside evaluation of swallowing.
5. Knee joints and knee locks in KAFO.
6. Cardiac rehabilitation.
7. Cardiac arrhythmia in young adults.
8. Sleep apnoea.
9. Bladder incontinence in an elderly woman.
10. Prosthetic terminal devices in upper limb amputees.

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

[MD 1224] **DECEMBER 2024** **Sub. Code: 4055**

(OCTOBER 2024 EXAM SESSION)

M.D. DEGREE EXAMINATION

PHYSICAL MEDICINE AND REHABILITATION

PAPER III – PRINCIPLES AND PRACTICE OF REHABILITATION MANAGEMENT OF NEUROLOGICAL, CARDIO PULMONARY AND OTHER CONDITIONS

Q.P. Code: 204055

Time: Three Hours **Maximum: 100 Marks**

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

1. Discuss the etiopathology and risk factors of chronic peripheral arterial occlusive disease. Describe the measures for pain management, risk modification, exercise training, and pharmaceutical inventions.

2. Discuss the rehabilitation management of a 3-year-old girl with lumbar meningomyelocele.

II. Write notes on: **(10 x 7 = 70)**

1. Diabetic large fibre neuropathy.
2. Metatarsal bar.
3. Lung abscess.
4. Planning of tracheal decannulation in TBI.
5. Ischial weight-bearing KAFO.
6. Diabetic ulcer foot.
7. Central venous thrombosis.
8. Dynamic response feet.
9. Stress incontinence in women.
10. Pre prosthetic training in a lower limb amputee.

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

[MD 0525] **MAY 2025** **Sub. Code: 4055**

M.D. DEGREE EXAMINATION

PHYSICAL MEDICINE AND REHABILITATION

PAPER III – PRINCIPLES AND PRACTICE OF REHABILITATION MANAGEMENT OF NEUROLOGICAL, CARDIO PULMONARY AND OTHER CONDITIONS

Q.P. Code: 204055

Time: Three Hours **Maximum: 100 Marks**

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

1. Discuss the various medical issues and deformities and their management in children with cerebral palsy.

2. Discuss the Cardiac rehabilitation of an obese person with triple vessel disease and post-stenting.

II. Write notes on: **(10 x 7 = 70)**

1. Exercises in pregnancy.
2. Sleep disturbances in the elderly.
3. Diabetic small fibre neuropathy.
4. Spastic equinovarus deformity.
5. Denis and Ferguson et al.'s three-column model of spinal stability.
6. Brown Sequard syndrome.
7. Ideal transtibial residual limb.
8. Genu recurvatum.
9. Shoulder subluxation.
10. Histopathologic study in Duchenne Muscular Dystrophy.

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

[MD 1025] OCTOBER 2025 Sub. Code: 4055

M.D. DEGREE EXAMINATION

PHYSICAL MEDICINE AND REHABILITATION

PAPER III – PRINCIPLES AND PRACTICE OF REHABILITATION MANAGEMENT OF NEUROLOGICAL, CARDIO PULMONARY AND OTHER CONDITIONS

Q.P. Code: 204055

Time: Three Hours **Maximum: 100 Marks**

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

1. Discuss the comprehensive rehabilitation approach and management strategies for stroke patients with hemiplegia, including motor recovery phases.

2. Discuss the pulmonary rehabilitation program for a patient with chronic obstructive pulmonary disease (COPD) with emphasis on exercise training and breathing techniques.

II. Write notes on: **(10 x 7 = 70)**

1. Exercise therapy in osteoarthritis of the knee.
2. Cognitive rehabilitation in traumatic brain injury.
3. Management of peripheral neuropathy.
4. Foot droop deformity and its orthotic management.
5. Glasgow Coma Scale and its clinical significance in rehabilitation.
6. Central cord syndrome.
7. Ideal above-knee amputation stump characteristics.
8. Genu valgum deformity.
9. Rotator cuff tear and rehabilitation protocol.
10. Nerve conduction study findings in Carpal tunnel syndrome.

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

[MD 0526] **MAY 2026** **Sub. Code: 4055**

M.D. DEGREE EXAMINATION

PHYSICAL MEDICINE AND REHABILITATION

PAPER III – PRINCIPLES AND PRACTICE OF REHABILITATION MANAGEMENT OF NEUROLOGICAL, CARDIO PULMONARY AND OTHER CONDITIONS

Q.P. Code: 204055

Time: Three Hours **Maximum: 100 Marks**

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

1. Discuss the clinical presentation, electro diagnostic findings and management for a 45-year-old teacher with traumatic right brachial plexus injury at level of the lower trunk.

2. Explain the components of metabolic syndrome and describe the steps for cardiac rehabilitation post cardiac LAD (left anterior descending) artery stenting procedure.

II. Write notes on: **(10 x 7 = 70)**

1. Complications associated with Duchenne muscular dystrophy (DMD).

2. Coma recovery Scale.

3. Classification of laxatives.

4. Mitrofanoff procedure.

5. UMN VS LMN facial nerve palsy.

6. Clinical presentation and Imaging in malignant MCA infarct.

7. Vestibular dysfunction post traumatic brain injury.

8. H reflex.

9. Adaptive aids for assisting in dressing independence.

10. Patellar Tendon bearing AFO.

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