



**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)**

**Master of Physiotherapy (MPT) Semester-III
June 2026 Examination**

Time: 3.00 Hrs.

[Max. Marks: 100]

Applied Physiotherapeutics: Physiotherapy in musculoskeletal disorder

Q.P Code: TA3051

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

I. LONG ESSAY

2X 20 = 40 Marks

1. Discuss the assessment and physiotherapy management for locomotor disorders.
2. Discuss the functional assessment techniques for evaluating hand function in patients with neurological impairments.

II. SHORT ESSAY

6 X 10 = 60 Marks

3. Explain how biomechanical abnormalities contribute to the development of patellofemoral pain syndrome.
4. What are the challenges in rehabilitating pediatric musculoskeletal disorders, and how do they differ from adult rehabilitation?
5. Explain about avascular necrosis, list bone susceptible for avascular necrosis. Write PT management post THR due to avascular necrosis.
6. Mechanics of dynamic hip screw fixation.
7. Enumerate the Physiotherapy management for Acl reconstruction with meniscal repair.
8. Explain assessment of acromion clavicular joint pain and write about PT management for the Same.

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Master of Physiotherapy (MPT) Semester-III
June 2026 Examination

Time: 3.00 Hrs.

[Max. Marks: 100]

Applied Physiotherapeutics: Physiotherapy in Sports

Q.P Code: TA3061

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

I. LONG ESSAY

2 X 20 = 40 Marks

- 1) Explain muscular fitness under the following headings
 - A) Components
 - B) Principles
 - C) Procedure of 1 Repetitive movement (RM) assessment
 - D) Importance of muscular fitness assessment for an athlete
- 2) Explain the role of electromyography (EMG) in sports biomechanics. Add a note on the importance of sports biomechanics in improving performance and injury prevention with an example.

II. SHORT ESSAY

6 X 10 = 60 Marks

- 3) Discuss the stages of motor learning and explain how training strategies differ at each stage in elite athletes
- 4) Explain the psychological preparation of elite athletes under the following heading
 - a) Motivation and goal setting
 - b) Methods of confidence building,
 - c) Methods of stress management
- 5) Classify nutrients and explain carbohydrate intake recommendations before and during endurance events.
- 6) Explain the WADA criteria for inclusion of substances and methods in the Prohibited List. Write the ways to prevent Doping among athletes.
- 7) A long-distance runner presents with medial tibial stress syndrome. Explain the sequence of clinical decisions you would make in assessment, athlete education and management.
- 8) Define electromyography (EMG). Explain the physiological basis, types of EMG, instrumentation, and signal processing, and discuss its applications in sports physiotherapy.



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Time: 3.00 Hrs.

[Max. Marks: 100]

Applied Physiotherapeutics: Physiotherapy in Neurological Sciences

Q.P Code: TA3071

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

I. LONG ESSAY

2 X 20 = 40 Marks

1. Discuss the Fitts and Posner's stages of motor learning and their application in neurological rehabilitation.
2. Explain the principles and applications of sensory integration therapy in neurological rehabilitation.

II. SHORT ESSAY

6 X 10 = 60 Marks

3. Describe the key activation zones used in Vojta therapy.
4. Discuss the clinical indications and contraindications of NDT.
5. Discuss the impact of delayed neurodevelopment on functional outcomes.
6. Explain the principle and procedure of electromyography.
7. Describe the gait cycle and its neural control.
8. Explain the principles of Proprioceptive Neuromuscular Facilitation (PNF).



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Time: 3.00 Hrs.

[Max. Marks: 100]

Applied Physiotherapeutics : Physiotherapy in Community and Rehabilitation

Q.P Code: TA3091

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

I. LONG ESSAY

2 X 20 = 40 Marks

1. Illustrate health care delivery system in low- and high-income economies. Add a note on health care access disparities.
2. Illustrate the assessment and management for diastasis recti. Discuss the recent evidence on physiotherapy management for diastasis recti.

II. SHORT ESSAY

6 X 10 = 60 Marks

3. Define rehabilitation and explain its role in disasters and conflict.
4. Explain the role of multidisciplinary approach in development of rehabilitation.
5. Explain the role of national institutes in rehabilitation services.
6. Explain the role, principle and function of primary health centre in detail
7. Discuss Legislations/acts by government of Indian aimed at reintegration of people with disability into mainstream society.
8. Discuss the survey method for disability detection. Add a note on importance of disability detection.



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[Max. Marks: 100]

RECENT ADVANCE IN MUSCULOSKELETAL DISORDERS

Q.P Code: TA3121

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

I. LONG ESSAY

02X20=40 Marks

1. Discuss how has evidence-based physiotherapy influenced the management of chronic musculoskeletal pain, and which are the most effective interventions?
2. Explain the management of knee osteoarthritis with recent advances.

II. SHORT ESSAY

06X10=60 Marks

3. Discuss Mennell's manipulation school of thought.
4. What role does physiotherapy play in managing osteoporosis and diabetes-related musculoskeletal complications?
5. Write about rehabilitation post-ACL reconstruction with supportive recent advances.
6. How have advancements in weight-bearing protocols and early mobilization improved recovery in fracture rehabilitation?
7. Explain the importance of assessing the strength of deep neck flexors in patients with neck pain.
8. Discuss the mechanism of action of extracorporeal shock wave therapy (ECSWT) in pain modulation with supportive evidence.



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[Max. Marks: 100]

**Recent Advances in elective Physiotherapy in Sports Physiotherapy
Q.P Code: TA3131**

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

I. LONG ESSAY

2 X 20 = 40 Marks

- 1) Describe in detail the components and principles of lumbar stress fracture injury prevention programs for bowlers.
- 2) Plan and explain the components of a warm-up program for a basketball player who has recently returned to sport post ACL reconstruction. List the importance of warm-up for athletes.

II. SHORT ESSAY

6 X 10 = 60 Marks

- 3) Discuss upper limb overuse injuries commonly seen in racket sports.
- 4) Describe the graduated return-to-play protocol following a sports concussion, including red flags and clearance criteria.
- 5) Explain the physiological demands of squash as a sport. Add a note on the components of sports-specific training for a squash player.
- 6) Discuss hypovolemic shock in sports injuries—aetiology, pathophysiology, clinical features, on-field management, and transport considerations.
- 7) A football player, 9 months post-ACL reconstruction, wants to return to competition. Outline the assessment protocol and clearance criteria.
- 8) Discuss the importance of biomechanical assessment in injury prevention with evidence to support it.



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[Max. Marks: 100]

Recent Advances in Physiotherapy in Neurological Sciences
Q.P Code: TA3141

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

I. LONG ESSAY

2 X 20 = 40 Marks

1. Explain the effects of Mirror box therapy in lower limb functional recovery after stroke. Justify with recent literature support.
2. Explain the application of virtual reality technology to neurorehabilitation. Add a note on Advantages of VR in neuro-rehabilitation.

II. SHORT ESSAY

6 X 10 = 60 Marks

3. Discuss the rehabilitation strategies for neuropathic pain and support your discussion with current evidence
4. Describe the therapeutic uses of craniosacral therapy.
5. How mime therapy improves facial synkinesis?
6. Discuss the therapeutic benefits of Pilates in a neurological condition with literature support.
7. Explain the objectives and technique of application of neurodynamic treatment.
8. Discuss the application and clinical relevance of mental imagery techniques in the rehabilitation of patients with T12–L1 incomplete spinal cord injury



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[Max. Marks: 100]

Recent Advances in Physiotherapy in Community and Rehabilitation

Q.P Code: TA3161

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

I. LONG ESSAY

2 X 10 = 40 Marks

1. Plan out a health promotion at workplace and action to overcome challenges. Add a note on recent evidence on health promotion at workplace.
2. Elaborate the recent technologies used for home program in community.

II. SHORT ESSAY

6 X 10 = 60 Marks

3. Write recent evidence in fall prevention exercise program using FITT principle among community dwelling older adults.
4. Discuss recent advances in prediction of functional disability.
5. Present the recent evidence on physiotherapy management in first- and second-degree pelvic organ prolapse
6. Write the physiotherapy management for knee osteoarthritis in community based set up along with supporting evidence.
7. Discuss recent evidence on community-based intervention among Parkinson's disease patients.
8. Describe the prenatal screening for paediatric conditions.