



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

**Master of Physiotherapy (MPT) (Semester-IV)**

**October 2025 Examination**

**Time: 3.00 Hrs.**

**[Max. Marks: 100]**

**APPLIED PHYSIOTHERAPEUTICS (PART-2) PHYSIOTHERAPY IN  
MUSCULOSKELETAL DISORDER AND SPORTS**

**Q.P.Code:T4052**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary*

**LONG ESSAY**

**2 X 20 = 40 Marks**

1. Write about fitness assessment for an athlete and give the importance of each examination
2. Discuss the Osteopathic School of Thought, highlighting its historical development, core Principles, techniques, and role in modern healthcare.

**SHORT ESSAY**

**6 X 10 = 60 Marks**

3. Explain the role of Community-Based Rehabilitation in musculoskeletal disorders
4. Explain the – Systematic injury prevention for athletes
5. Write the post-surgical management of a child with CP who has undergone hamstring release surgery
6. what are the advantages and disadvantages of using stainless steel in orthopedic implants
7. Explain in detail the myofascial release technique (MFR), write the procedure for MFR for the upper trapezius
8. Explain the concept of “core” in pilates and why is it important.

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**Applied Physiotherapeutics (Part-2) Physiotherapy in Neurological sciences.**

**Q.P.Code:T4062**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary*

**LONG ESSAY**

**2 X 20 = 40 Marks**

1. Explain the role of physiotherapy in the management of neuromuscular disorders, including specific interventions and expected outcomes.
2. Discuss the comprehensive rehabilitation strategies for patients with cognitive disorders, including assessment and intervention techniques.

**SHORT ESSAY**

**6 X 10 = 60 Marks**

3. Describe the principles of ICU management in patients with severe neurological injuries.
4. Outline the physiotherapy management of degenerative diseases of the nervous system, including specific techniques and outcomes.
5. Discuss the rehabilitation techniques for metabolic disorders of the nervous system.
6. Explain the principles and applications of functional electrical stimulation (FES) and biofeedback in neurological rehabilitation.
7. Describe the physiotherapy management of demyelinating diseases, highlighting key approaches and interventions.
8. Discuss how the ICF framework aids in the comprehensive assessment of patients with neurological disorders.



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**Time: 3.00 Hrs.**

**[Max. Marks: 100]**

**Applied Physiotherapeutics (Part-2) Physiotherapy in Cardio-Respiratory Disorders  
Q.P Code: T4072**

*Your answers should be specific to the question asked  
Draw neat labelled diagrams wherever necessary*

**LONG ESSAY**

**2 X 20 = 40 Marks**

1. Write in detail the Pulmonary function and Arterial Blood Gas analysis and its application in post CABG patient. Discuss the phase -1 Cardiac rehabilitation.
2. Write the level of ICU Care and assessment for ICU patients.

**SHORT ESSAY**

**6 X 10 = 60 Marks**

3. Discuss the red flag, yellow flag and procedure of thoracic mobilization
4. Write in detail the Clinical features, assessment and management of Pneumonia
5. Discuss the termination criteria, procedure and interpretation of submaximal exercise testing
6. Discuss the scales of dyspnea and its applications
7. Write in detail the risk stratification of peripheral vascular diseases
8. Explain the procedure, response of the Respiratory Proprioceptive Neuromuscular facilitation



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**[Max. Marks: 100]**

**Subject: APPLIED PHYSIOTHERAPEUTICS (PART-2) PEDIATRICS**

**Q.P Code: T4092**

*Your answers should be specific to the question asked*

*Draw neat labelled diagrams wherever necessary*

**LONG ESSAY**

**2x20=40 Marks**

1. Define orthosis and prosthesis? Use of orthosis in improving Gait in children with neurological disabilities?
2. Classify cerebral palsy and describe physiotherapy management for 2 years boy with Spastic Diplegia.

**SHORT ESSAY**

**6x10=60 Marks**

3. Discuss causes and consequences of childhood obesity.
4. Discuss Adam's closed-loop theory in motor learning.
5. Explain rehabilitation after surgery for clubfoot.
6. Define Spasticity? Write Physiotherapy plan for Spasticity
7. Write short notes on Balance training in Down syndrome
8. Explain exercise prescription in juvenile diabetes.



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Master of Physiotherapy (MPT)  
Second Year Semester-IV October 2025 Examinations**

**Time: 3.00 Hrs.**

**[Max. Marks: 100]**

**Recent advances in Musculoskeletal & sports Physiotherapy (part-2)**

**Q.P Code: T4102**

*Your answers should be specific to the questions asked.  
Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 40 Marks**

1. Discuss functional movement screening and its role in injury prevention.
2. Discuss current trends in sports injury prevention strategies with supporting literature.

**SHORT ESSAY**

**6 X 10 = 60 Marks**

3. Critically evaluate exercise-based interventions for neck pain management.
4. Discuss ergonomics in assistive device prescription and design.
5. Define Evidence-Based Practice (EBP) and discuss its significance in sports injury management.
6. Explain the bio-psycho-social approach to sports injury rehabilitation.
7. Explain advances in spinal orthoses and their clinical application.
8. Review outcome measures used to assess readiness for return-to-play.



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**Time: 3.00 Hrs.**

**[Max. Marks: 100]**

**Recent advances in Physiotherapy in Neurological sciences. (Part-2)**

**Q.P Code: T4112**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 20 = 40 Marks**

1. Describe the Clinical recommendation on PT Management of Falls in Community-Dwelling Older Adults by the Academy of Geriatric Physical Therapy.
2. Analyze the innovative strategies employed in physical therapy management for Guillain-Barre Syndrome.

**SHORT ESSAY**

**6 X 10 = 60 Marks**

3. Summarize the available evidence from systematic reviews on tele rehabilitation in physical therapy by APTA
4. Outline the evidence recommendations of physiotherapy interventions for incomplete spinal cord injury quoting the literature on core functional symptoms
5. Discuss the current research on advanced Neurorehabilitation in Post-Stroke Patients
6. Discuss the Ataxia UK recommendations on PT the management for specific impairments and limitations of people with progressive ataxia
7. Discuss the recent trends in the PT management of Diabetic peripheral neuropathy
8. Discuss the evidence-based PT intervention on activity limitation for Multiple sclerosis patients.



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**Master of Physiotherapy (MPT) (Semester-IV)  
October 2025 University Examination**

**Time: 3.00 Hrs.**

**Max. Marks: 100]**

**Recent advances in Physiotherapy in Cardio-respiratory (Part-2)  
Q.P. Code: T4122**

**LONG ESSAY**

**2 X 20 = 40 Marks**

1. Write in detail about Arterial Blood Gas analysis and physiotherapy management for cardio - Pulmonary Diseases.
2. Write the levels of ICU, assessment and physiotherapy management for ventilated ICU patients.

**SHORT ESSAY**

**6 X 10 = 60 Marks**

3. Write a note on variations of Cardiopulmonary resuscitation
4. Write the recent advances in the management of breathlessness.
5. Describe the use of pharmacotherapeutics and its relevance in an individual undergoing PFT testing.
6. Explain the importance of positioning to improve lung functions.
7. Write in detail the risk stratification physiotherapy management for peripheral vascular diseases
8. Write the exercise training and its effect on resting heart rate and heart rate variability.



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**[Max. Marks: 100]**

**Subject: Recent advances in Physiotherapy in Paediatrics (Part-2)  
Q.P Code: T4142**

*Your answers should be specific to the questions asked.  
Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2x20=40 Marks**

1. Explain the physiology of pain perception in neonates. ADD Recent evidence on pain management in neonates
2. Explain the importance of AFO in improving Gait in cerebral palsy with recent evidence

**SHORT ESSAY**

**6x10=60 Marks**

3. Discuss the importance of interprofessional collaboration in pediatric rehabilitation
4. Recent advance on biopsychosocial model of pain in paediatrics
5. Recent advances on role of play therapy in reducing pain perception in children.
6. Recent guidelines on KMC for neonates
7. Write Establish evidence on role of physiotherapy in inclusive education.
8. Establish evidence with physiotherapy for Upper limb- hand burns management