



SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

Master of Physiotherapy (MPT)

Second Year Semester-IV September 2024 Examination

Time: 3.00 Hrs.

[Max. Marks: 100]

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 comprehensive physiotherapy management strategies for traumatic brain injury (TBI), including ICU management, restoration of motor control, rehabilitation, and community integration.
2. Discuss the rehabilitation strategies for neurocutaneous disorders, focusing on physiotherapy interventions.

SHORT ESSAY

6 X 10 = 60 Marks

3. Describe the physiotherapy management of inflammatory and infectious diseases of the nervous system.
4. Outline the assessment and intervention techniques for disorders of special senses in neurological patients.
5. Discuss the physiotherapy management of degenerative diseases of the nervous system.
6. Explain the role of physiotherapy in oromotor rehabilitation, including techniques and expected outcomes.
7. Describe the physiotherapy interventions for restoring motor control in patients with neurological disorders.
8. Discuss the use of the ICF model in creating individualized rehabilitation plans for neurological patients.



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[Max. Marks: 100]

Applied Physiotherapeutics (Part-2) Physiotherapy in Cardio-Respiratory Disorders

Q.P Code: T4072

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

LONG ESSAY

2 X 20 = 40 Marks

1. Discuss in detail all the phases of assessment in Cardiac Rehabilitation
2. Write in detail the assessment and application of Muscle energy technique in Thorax

SHORT ESSAY

6 X 10 = 60 Marks

3. Write in detail the physiotherapy management of Asthma
4. Write in detail the long-term management of Interstitial lung disease.
5. Write in detail the mechanics of Cardiac Cycle
6. Write in detail the IPPV management and its application in Airway clearance
7. Write in detail the clinical feature, assessment and management of Bronchiectasis
8. Write in detail maximal exercise testing



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Time: 3.00 Hrs.

[Max. Marks: 100]

**Sub: – Applied Physiotherapeutic (part-2) Physiotherapy in Community and Rehabilitation
Q.P Code: T4082**

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

LONG ESSAY

2 X 20 = 40 Marks

1. Discuss a holistic approach for the treatment of musculoskeletal problems of the aged in the community.
2. Describe strategies to prevent work related injuries. Add a note on role of machine learning in primary prevention of work-related musculoskeletal disorders.

SHORT ESSAY

6 X 10 = 60 Marks

3. What are the steps involved in performing a home evaluation as a part of rehabilitation in a patient with OA knee in the elderly?
4. What are the different types of grips and where are they used? Elaborate with sketches.
5. Define occupational hazards explain and provide examples of each type (physical, chemical, biological, ergonomic, psychosocial).
6. Explain the posture and ergonomic advice during antenatal and postnatal period.
7. How can employers maintain productivity during an employee's recovery period?
8. Describe return to work intervention after brain injury.

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[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. Explain the Current Rehabilitation Therapies in Parkinson's Disease with Parkinson's exercise guidelines from ACSM.
2. Explore the contemporary approaches in sport-specific assessment for neurological patients in physical therapy.

SHORT ESSAY

6 X 10 = 60 Marks

3. Discuss the PT Evidence based practices for CP based on ICF
4. Outline the evolving new PT approaches on activity limitations for MS
5. Explain the recent advances in PT management of ataxia
6. Discuss the current research on Noninvasive Brain Stimulation for Neurorehabilitation in Post-Stroke Patients
7. Explain the CPG to improve locomotor function for incomplete spinal cord injury
8. Analyze the innovative strategies employed in physical therapy management for Guillain-Barre Syndrome (GBS) in recent times.

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Max. Marks: 100]

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

LONG ESSAY

2 X 20 = 40 Marks

1. Discuss the neuromechanism of Breathing. Explain the various PNF Approaches.
2. Write in detail the recent advances in the scales of Dyspnea

SHORT ESSAY

6 X 10 = 60 Marks

3. Write in detail Holter Monitoring and its application
4. Describe the use of pharmacotherapeutics and its relevance with biomechanics of thorax
5. Describe in detail indications, procedure, and evidence for exercise training for cardiac patients with pacemakers.
6. Explain the indication, application and EBP for IPPV devices.
7. Describe the patho-physiological mechanisms and exercise tolerance of Type I respiratory failure.
8. Write in detail the recent advances for exercise training in type – 2 diabetic patient



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Max. Marks: 100

Recent advances in Physiotherapy in Community and rehabilitation (Part-2)
Q.P. Code: T4132

LONG ESSAY

2 X 20 = 40 Marks

1. Define ICF and ICD. Using the ICF framework, describe components of patient education for a 60-year-old male with below-knee amputation.
2. Describe the role of assistive devices in supporting vocational management. Add a note on recent advances.(12+8)

SHORT ESSAY

6 X 10 = 60 Marks

3. Describe the wheelchair design. Add a note on biomechanics of wheelchair.(5+5)
4. Discuss the relevance of ICF core sets in goal setting for a patient with spinal cord injury.
5. Describe the recent advances on assistive technology for postural control and gait performance for adults with stroke.
6. Describe the strategies to raise community awareness about preventive physiotherapy.
7. What are some recent advances in manual therapy techniques used in sports injury rehabilitation?
8. Write a note on EBP in CBR, discuss and provide examples of evidence-based interventions for improving mobility and function in CBR programs.

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