



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

Master in Physiotherapy (MPT)

First Year Semester-I April 2026 Examination

TIME – 3.00 HRS

MAX MARKS: 100

Physiotherapy Practice

QP CODE: TA1010

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 principles, function, and management approach in physiotherapy practice.
2. Explain the Ethical Guidelines given by the ICMR and compare with the global ethical guidelines.

II. Short Essay

6X 10 = 60 Marks

3. What is the need of Standardized scales in various assessments in physiotherapy practice?
4. List out the Professional competencies of physiotherapist with relevant example.
5. Explain the Legal and ethical responsibilities of physiotherapist.
6. What is competency-based education? Explain the need of CBE in PT education.
7. Explain basic adult learning theories?
8. Explain the methods of evidence-based physiotherapy in clinical practice.



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Research Methodology & Biostatistics

QP CODE: TA1020

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I. Long Essay

2X20= 40 Marks

1. Explain the 5 steps in creating a plan for research dissemination.
Explain Graham's knowledge to action cycle framework? (12+8)
2. How to develop a high-quality questionnaire. When is the development of the questionnaire indicated? How to check the validity and reliability of a questionnaire? (10+5+5)

II. Short Essay

6X10 =60 Marks

3. Explain the best practice guidelines for following emerging evidence in the physiotherapy practice.
4. Describe the 4 types of data measurement scales with examples.
5. Outline the steps involved in evaluating a research article.
6. What the objectives are for cross sectional study? What are the uses and limitations of cross-sectional surveys? (5+5)
7. Explain probability and Normal Distribution.
8. Explain the purpose and types of data presentation.



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Basic Sciences Part -I

QP CODE: TA1031

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I. LONG ESSAY

2 X 20 = 40 Marks

1. Describe “Q-angle” and add a short note on screw home mechanism. Describe the pathomechanics of knee complex due to ACL injury. (10+10 = 20)
2. Explain the importance of individual joint movements in shoulder Dynamics. Add a note on the pathomechanical changes in paralysis of scapular muscles. (10+10 = 20)

II. SHORT ESSAY

6X 10 = 60 Marks

3. Describe the biomechanics properties of ligament and tendon.
4. Explain the pathomechanics of mal posture at thoracic and cervical level with relevant examples.
5. Describe the pathomechanics of patella femoral joint dysfunction.
6. Explain multidimensional components of fatigue assessment tool.
7. Explain the methods used for analysis of ergonomic hazard.
8. Write the pathomechanics of elbow complex in relation to soft tissue injury