

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



Master of Physiotherapy (MPT)
First Year Semester-II September 2023 Examination

TIME – 3.00 HRS

MAX MARKS: 100

Basic Sciences – Part - II

QP CODE: T2032

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

Long essay

2 X 20 = 40 Marks

1. Effectively prescribe exercise for Knee Osteoarthritis for a person with BMI as 31. Use the FITT principle to formulate a realistic PA programme.
2. Describe kinesiological EMG. Explain methods and application of kinesiological EMG.

Short essay

6 X 10 = 60 Marks

3. Compare and contrast any 2 standard exercise stress test protocol and its characters.
4. Explain the possible influence of specific training on muscle fibre composition and metabolic capacity
5. Describe the 3 types of Energy transfer during exercise
6. Explain the Thermoregulation and environmental heat stress during exercise
7. Describe EMg and biofeedback. Write a note on indications and contra indications of the biofeedback.
8. Explain the biofeedback loop with suitable theory.



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Physiotherapy Diagnosis & Clinical decision making

QP CODE: T2040

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Long essay

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1. Describe evaluation methods. Explain the any 2 special test used in pelvic girdle, knee and ankle joint dysfunction.
2. Explain the principles and application of McKenzie technique for Neck pain.

Short essay

6 X 10 = 60 Marks

3. Describe the physical fitness assessment, format and Safety considerations. Add a note on the sequence and Components of fitness tests
4. Explain the clinical decision making for Bell's Palsy
5. Explain the measurement of wheelchair with a well labled diagram Explain the difference between the normal and sports wheelchair.
6. Explain the Methods and interpretation of imaging studies in cardiopulmonary disorders
7. Describe EMG and biofeedback. Write a note on indications and contra indications of the biofeedback.
8. Define Developmental screening and explain the same with relevant example.



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