



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

Master of Physiotherapy (MPT)

First Year Semester-II November 2024 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 a 30-year-old adult with hypertension using FITT principle. List the practical Recommendations to Enhance Exercise Adherence.
2. Describe kinesiological EMG. Explain therapeutic application of kinesiological EMG with suitable example.

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 Factors affecting energy expenditure. Write a note on energy cost of activities
6. Explain the effects of environmental cold stress during exercise.
7. Describe the EMG apparatus. Explain the function of each apparatus.
8. Describe evoked potential. Explain the clinical implications of VEP.



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Physiotherapy Diagnosis & Clinical decision making

QP CODE: T2040

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Draw neat labelled diagrams wherever necessary

Long essay

2 X 20 = 40 Marks

1. Explain the principles, indications, contraindications and method of application of Butler's neural mobilization technique for the upper limbs.
2. Describe imaging studies. Explain the methods and interpretation of imaging studies related to musculo-skeletal conditions

Short essay

6 X 10 = 60 Marks

3. Define movement dysfunction. Explain the methods of detection of movement dysfunction.
4. Describe the fitness test components for a specific sport with an example.
5. Describe Actino-therapy and its therapeutic application.
6. Discuss various post amputation complication. Add a note on medical & physiotherapy treatment.
7. Describe the importance of monitoring vital signs. Explain the techniques of monitoring vital signs.
8. Describe EMG and biofeedback. Explain the therapeutic application of EMG biofeedback.