



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

Master of Physiotherapy (MPT) (Semester-III)

March 2024 Examination

Time: 3.00 Hrs.

[Max. Marks: 100]

Applied Physiotherapeutics Part-I Physiotherapy in Neurological Sciences

Q.P Code: T3061

LONG ESSAY

2 X 20 = 40 MARKS

1. Describe muscle tone disorders. Compare and contrast the different muscle tone disorders and its Physiotherapy management. (4+4+12)
2. Describe Proprioceptive Neuromuscular Facilitation technique and its applications in neurological conditions. (5+15)

SHORT ESSAY

6 X 10 = 60 MARKS

3. Describe Blink reflex and its clinical applications. (3+7)
4. Describe Neuro-psychological functions and write a short note on Perception testing. (4+6)
5. Define Rigidity and its pathophysiology (3+7)
6. Explain the facilitatory and inhibitory techniques used in NDT. (10)
7. Describe the types of Cerebrovascular accident and causes for the same (5+5)
8. Describe Motor relearning Program technique and its applications in neurological conditions. (3+7)



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Applied Physiotherapeutics Part-I Physiotherapy in cardio respiratory disorders

Q.P Code: T3071

LONG ESSAY

2 X 20 = 40 Marks

1. Write in detail the development of cardiovascular and Pulmonary system
2. Write in detail the assessment of autonomic nervous system and cardiac Functions

SHORT ESSAY

6 X 10 = 60 Marks

3. Explain the physiology of Respiration
4. Write in detail the Clinical features , assessment and Pathology of Meconium aspiration
5. Explain the setup of PEEP , auto peep and work of Breathing
6. Describe the skeletal compensation in asthma,
7. Explain in detail humidification and nebulization in detail
8. Explain the positive expiratory techniques and its application device



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Applied Physiotherapeutics Part-I Physiotherapy in Community and Rehabilitation

Q.P Code: T3081

LONG ESSAY

2 X 20 = 40 Marks

1. Explain the methods of assessment for identification of disability in rural areas. Add a note on importance of disability detection.
2. Mention at least 8 NGO's. working for differently abled in India and give a gist about the projects undertaken by them.

SHORT ESSAY

6 X 10 = 60 Marks

3. Describe the awareness methods among school going children to integrate healthy lifestyle to improve quality of life.
4. Describe the role of non-governmental organization in coordinating rehabilitation program.
5. Define rehabilitation, principles of rehab and illustrate the access to rehabilitation in primary health care.
6. Explain the role, principle and function of primary health centre in detail.
7. Develop a home exercise program for a 8 year old spastic diplegic who is ambulating with a help of walker and AFO.
8. Discuss the role of district rehabilitation centre in disability management.



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Time: 3.00 Hrs.

[Max. Marks: 100]

Recent Advances in Physiotherapy in Neurological Sciences

Q.P Code: T3111

LONG ESSAY

2 X 20 = 40 Marks

1. Explain the components of Physical Therapy Clinical Reasoning and Reflection Tool
2. Describe the composition of VR equipment, Intervention process and effects of VR in rehab of neurological conditions.

SHORT ESSAY

6 X 10 = 60 Marks

3. Explain the principles, techniques and application of Mirror box therapy.
4. Describe neuromuscular and its therapeutic application in neurological disorders.
5. Review the motor learning concepts regarding the effects of mental imagery on physical skills based on the available literature.
6. Describe the use of the ICF in the neurorehabilitation process in the form of an ICF based rehabilitation plan.
7. Discuss the use of neural tissue mobilization on radiculopathy with literature evidence.
8. Classify rehabilitation robots with examples.



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Recent Advances in Physiotherapy in Cardio-respiratory

Q.P Code: T3121

LONG ESSAY

2 X 20 = 40 Marks

1. Write in detail the recent advances in Pep Therapy and Forced Expiratory techniques
2. Write in detail risk factors and evaluation of Acute Coronary syndrome.

SHORT ESSAY

6 X 10 = 60 Marks

3. Discuss the work of breathing assessment and Outcomes tools
4. Explain the special techniques of application of airway clearance.
5. Write in detail the assessment and Pathology of Bronchiectasis
6. Write in detail the weaning criteria and advances in the airways in ventilators
7. Differentiate between pulmonary pressure and its application of surface tension and respiratory muscle strength
8. Write the ECG at rest and its clinical relevance in exercise tolerance



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Recent Advances in Physiotherapy in Community and Rehabilitation

Q.P Code: T3131

LONG ESSAY

2 X 20 = 40 Marks

1. Plan out a health promotion at workplace and action to overcome challenges. Add a note on recent evidence on health promotion at workplace.
2. Discuss the recent evidence in telerehabilitation as home program among community dwelling older adults and their adherence to program.

SHORT ESSAY

6 X 10 = 60 Marks

3. Present the recent evidence on physiotherapy management in first- and second-degree pelvic organ prolapse
4. Discuss the recent evidence on principles of exercise training among stroke survivors.
5. Write the recent evidence on self-help groups for care givers of children with disabilities.
6. Describe developmental disorder screening in paediatric along with psychometric properties.
7. Present recent evidence on pedometer as home program in pulmonary rehabilitation.
8. Discuss recent evidence on community based pelvic floor rehabilitation program in women with urinary incontinence. Add a note on quality of life of patient with urinary incontinence.