Rajiv Gandhi University of Health Sciences, Karnataka

Master of Physiotherapy Degree Examination – 30-Mar-2022

[Time: 3 Hours] [Max. Marks: 100]

Principles of Physiotherapy Practice, Research Methodology and Biostatistics, Exercise Physiology, Electrophysiology

Q.P. CODE: 8121

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions 10 X 10 = 100 Marks

1. Explain the environmental factors that influences on various systems of the body during performance.
2. Explain the features and effects of various types of electrical currents used in stimulation of the neuromuscular system.
3. Explain repeated measures ANOVA.
4. Explain the electrical properties of muscle and nerve.
5. Explain the importance of International classification of functioning Disability and Health in documentation of patient management.
6. Discuss the ethical principles in an Institution.
7. Explain the strategies of fatigue management.
8. Explain the various types of study design with its implications in research.
9. Explain the various steps in evaluating evidence based on evidence based practice.
10. Explain the standardized scales and tests in assessment of Pain.

Master of Physiotherapy Degree Examination – 01-Apr-2022

[Time: 3 Hours] [Max. Marks: 100]

PHYSICAL AND FUNCTIONAL DIAGNOSIS

Q.P. CODE: 8122

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions 10 X 10 = 100 Marks

1. Explain the various imaging techniques in musculoskeletal examination process.
2. Enumerate in detail the theories of motor learning.
3. Explain different Aids and appliances used to improve neurological dysfunction.
4. Explain the Analysis of various parameters of gait.
5. What are the components of physical fitness?
6. Write a note on evaluation of aging.
7. Explain Exercise ECG testing and its importance.
8. What is Spirometry? Explain its implications in pulmonary rehabilitation.
9. Explain the importance of nerve conduction velocity test in pheripheral nerve injuries.
10. Explain the various methods of anthropometric measurements used in over weight individuals.

Rajiv Gandhi University of Health Sciences, Karnataka

Master of Physiotherapy Degree Examination – 04-Apr-2022

[Time: 3 Hours] [Max. Marks: 100]

PHYSIOTHERAPEUTICS
Q.P. CODE: 8123

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions 10 X 10 = 100 Marks

1. Describe about pain modulation and management of pain.
2. Explain in detail about pulmonary rehabilitation in COPD patients.
3. Physiotherapy interventions for Brachial plexus injury.
4. Methods and uses of Biofeed back mechanism.
5. Rehabilitation protocol for reconstructive surgery of ACL.
6. Postnatal physiotherapy for caesarean section.
7. Effectiveness of PNF technique in breathing.
8. Physiological effects of Yoga.
9. Write a note on Maitland technique.
10. Exercise prescription for Type II Diabetes patients.

Master of Physiotherapy Degree Examination – 06-Apr-2022

[Time: 3 Hours] [Max. Marks: 100]

MUSCULOSKELETAL DISORDERS AND SPORTS
Q.P. CODE: 8124

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions 10 X 10 = 100 Marks

1. Discuss the evaluation with differential diagnosis of a patient with neck pain.
2. Explain the different Manual therapy technique with recent advances for Adhesive capsulities.
3. Explain the management strategies for post burns contractures.
4. Explain the physical disability evaluation methods.
5. Write an essay on neuro dynamics.
6. Prescription and evaluation of different types of above knee prosthesis.
7. Principles of training in sports physiotherapy.
8. Discuss the physiotherapy following knee arthroplasty.
9. Explain the physiotherapy management for Lumbar IVDP.
10. Explain the physiotherapy management for Anklyosing spondylitis.

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Rajiv Gandhi University of Health Sciences, Karnataka

Master of Physiotherapy Degree Examination – 06-Apr-2022

[Time: 3 Hours] [Max. Marks: 100]

NEUROLOGICAL AND PSYCHOSOMATIC DISORDERS
Q.P. CODE: 8125

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions 10 X 10 = 100 Marks

1. Write about cognitive disorders in Parkinson's disease and its management.
2. Recent advances in the management of gait disorders in stroke.
3. PT management of Hypoxic Encephalopathy.
4. Write about the application of Bio feedback in neurological disorders.
5. PT management of functional disability in Motor neuron disorders.
6. Assessment scales for Hand functions.
7. Role of Robotics in Functional activity training in SCI patients.
8. Role of FES in Stroke rehabilitation.
9. Write a note on Oromotor rehabilitation.
10. PT management of and recent advance on BPPV.

Master of Physiotherapy Degree Examination – 06-Apr-2022

[Time: 3 Hours] [Max. Marks: 100]

CARDIO RESPIRATORY DISORDERS
Q.P. CODE: 8126

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All the Questions 10 X 10 = 100 Marks

1. Write the exercise prescription for type two diabetes mellitus with recent advances.
2. Write the physiotherapy management for an ICU patient who is intubated and unconscious.
3. Explain the physiotherapy management for mastectomy.
4. Explain the special tests used in PVD.
5. Write a note on Arterial blood gas analysis.
6. Write the physiotherapy techniques to increase lung volumes.
7. Contrast and compare COPD and RLD based on PFT findings
8. ECG
9. Write in detail about modes of Ventilator.
10. Write the physiotherapy management for Heart Transplantation.

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Rajiv Gandhi University of Health Sciences, Karnataka

Master of Physiotherapy Degree Examination – 06-Apr-2022

[Time: 3 Hours] [Max. Marks: 100]

COMMUNITY PHYSIOTHERAPY
Q.P. CODE: 8127

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All the Questions 10 X 10 = 100 Marks

1 Describe the role of physiotherapy in the lifelong care of a child with Duchenne Muscular Dystrophy.

2 Describe the recent advances in the understanding of exercise training in the management of urinary incontinence.

3. Discuss the role of Non-Governmental Organisations (NGO) in disability management.

4. Describe the guidelines to develop a home program for a person with rheumatoid arthritis and hand deformities.

5. Describe the importance of physical activity in adults with cerebral palsy.

6. What is the role of ergonomic evaluation in a person with a neck dysfunction who is a bank employee?

7. Critique the role of physiotherapy in a school for special children.

8. Elucidate the role of physiotherapy in community health camps.

9 Classify lower limb orthosis and describe their therapeutic indications.

10 Explain the importance of primary prevention in chronic NCDs.

Master of Physiotherapy Degree Examination – 06-Apr-2022

[Time: 3 Hours] [Max. Marks: 100]

PAEDIATRIC
Q.P. CODE: 8128

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions 10 X 10 = 100 Marks

1. Define Meningitis and write its management.

2. Write assessment and management of Viral Pneumonia.

3. Write assessment and management of a child with Scoliosis.

4. Write about Fitness Testing in children.

5. Role of Paediatric physiotherapist in Special school.

6. Congenital Dislocation of Hip-Role of physiotherapy.

7. Write about Sensory Processing Disorder.

8. Role of paediatric physiotherapy in a child of 5 years old underwent below elbow amputation.

9. Gross motor development from 0 to 1 year.

10. Fetal Circulation.

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Rajiv Gandhi University of Health Sciences, Karnataka

Master of Physiotherapy Degree Examination – 15-Nov-2022

[Time: 3 Hours] [Max. Marks: 100]

Principles of Physiotherapy Practice, Research Methodology and Biostatistics, Exercise Physiology, electrophysiology
Q.P. CODE: 8121

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions 10 X 10 = 100 Marks

1. Describe in detail research process.
2. Explain the documentation based on ICF.
3. Significance of validity and reliability in research.
4. Classify the different types of research design. Explain each type in detail with suitable examples.
5. Explain the Muscle plasticity in response to electrical stimulation.
6. Explain the factors that effects of age and sex in exercise training.
7. Ethical issues in practice of physiotherapy.
8. Evidence based practice.
9. Systemic review versus meta-analysis.
10. Explain in detail the physiology of neuromuscular junction.

Master of Physiotherapy Degree Examination – 17-Nov-2022

[Time: 3 Hours] [Max. Marks: 100]

PHYSICAL AND FUNCTIONAL DIAGNOSIS
Q.P. CODE: 8122

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions 10 X 10 = 100 Marks

1. Posture and gait analysis methods in geriatric population.
2. Developmental screening of new born and its importance in rehabilitation.
3. Exercise ECG testing
4. Advances in external appliances for lower limb dysfunction.
5. Somatosensory Evoked Potential (SSEP).
6. Physical fitness assessment in terms of muscle strength and endurance for an athlete.
7. Interpretation of arterial blood gas analysis (ABG).
8. Assessment of shoulder dysfunction. Emphasize on special tests and scales used.
9. Methods of evaluation of Autonomic nervous system.
10. Explain the different perceptual disorders and its assessment

Rajiv Gandhi University of Health Sciences, Karnataka

Master of Physiotherapy Degree Examination – 19-Nov-2022

[Time: 3 Hours] [Max. Marks: 100]

PHYSIOTHERAPEUTICS
Q.P. CODE: 8123

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions 10 X 10 = 100 Marks

1. Physiotherapy management of post mastectomy patients.
2. Methods and uses of Biofeedback mechanism.
3. Bowel and bladder training.
4. NDT approach in cerebral palsy children.
5. Write a note about different type of Asanas.
6. Methods of management of chronic pain.
7. Significance and methods of core muscle strengthening.
8. Different types of manual therapy techniques.
9. Theories of aging and geriatric rehabilitation.
10. Cardiac rehabilitation for recent myocardial infarction.

Master of Physiotherapy Degree Examination – 21-Nov-2022

[Time: 3 Hours] [Max. Marks: 100]

MUSCULOSKELETAL DISORDERS AND SPORTS
Q.P. CODE: 8124

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions 10 X 10 = 100 Marks

1. Role of Myofascial Release Technique in Musculoskeletal disorders.
2. Rehabilitation following total hip replacement.
3. Sports fitness assessment.
4. Explain Mulligans and Kaltenborn school of thought.
5. Explain the functional assessment of hand.
6. Pathomechanics of osteoarthritis of knee and its management.
7. Stages of healing of soft tissue injuries and management.
8. Recent advances in the management of frozen shoulder.
9. Explain in detail about various causes of low backpain and write the principles of management depending upon the causes.
10. Rehabilitation of sports related injuries to the knee joint along with its special tests.

Rajiv Gandhi University of Health Sciences, Karnataka

Master of Physiotherapy Degree Examination – 21-Nov-2022

[Time: 3 Hours] [Max. Marks: 100]

NEUROLOGICAL AND PSYCHOSOMATIC DISORDERS
Q.P. CODE: 8125

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions 10 X 10 = 100 Marks

1. Describe motor learning and its role in hand rehabilitation in stroke.
2. Recent advances in management of posture in Parkinson's disease.
3. Explain about Motor control in Gait.
4. PT management of C6 cervical myelopathy.
5. Write about assessment scales applied in balance disorders.
6. Write a note on Brunnstrom technique in stroke.
7. Define Ataxia and its PT management.
8. Write about orthotic appliances in traumatic Spinal cord injuries.
9. Write a note on Evoked potentials.
10. Assessment and management of Bladder dysfunction in rehabilitation.

Master of Physiotherapy Degree Examination – 21-Nov-2022

[Time: 3 Hours] [Max. Marks: 100]

CARDIO RESPIRATORY DISORDERS
Q.P. CODE: 8126

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions 10 X 10 = 100 Marks

1. Discuss functional anatomy of the respiratory system.
2. Write the methods used to assess inspiratory muscle strength and add a note on PT techniques to improve the same.
3. Analyze ventilation and perfusion on deformities of chest wall.
4. Write the PT management for thoracic surgery. Enumerate the complications for the same.
5. Justify chest physiotherapy in acute bronchiolitis.
6. Critique respiratory mechanics in quadriplegia.
7. Explain physiotherapy for airflow limitation.
8. Elaborate the adjuncts to airway clearance technique.
9. Adaptations in the cardiopulmonary system with aging.
10. Recent advances in monitoring outcome measures in ICU patient.

Rajiv Gandhi University of Health Sciences, Karnataka

Master of Physiotherapy Degree Examination – 21-Nov-2022

[Time: 3 Hours] [Max. Marks: 100]

COMMUNITY PHYSIOTHERAPY
Q.P. CODE: 8127

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions 10 X 10 = 100 Marks

1. Write in detail about the health care delivery systems in India.
2. Describe physical fitness assessment for a 45 year old healthy person working in IT industry.
3. Describe tools for fall risk assessment in elderly.
4. Explain the role of physiotherapy in management of urinary incontinence in elderly women.
5. Discuss the importance early detection for disability.
6. Explain the recent trends in management of work conditioning and work hardening in ergonomics.
7. Describe role of physiotherapy in prevention of life style disorders.
8. Using ICF framework, describe components of patient education for a 60 year old male with below knee amputation.
9. Explain the role of physiotherapists as a master trainer.
10. Discuss Indian legislations for persons with disability.

Master of Physiotherapy Degree Examination – 21-Nov-2022

[Time: 3 Hours] [Max. Marks: 100]

PAEDIATRIC
Q.P. CODE: 8128

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions 10 X 10 = 100 Marks

1. Enumerate evidence-based practice in Neuropaediatric physiotherapy.
2. Write management of a Six months old child operated for Acyanotic Heart Disease.
3. Write role of physiotherapy for Ten-year-old boy in Paediatric Intensive Care Unit (PICU) diagnosed with Poly Neuropathy.
4. Assessment and management of Three-year-old child on intercostals drainage.
5. Orthotic usage in musculoskeletal dysfunction in paediatric population.
6. Role of physiotherapy in flat feet.
7. Exercise prescription for Ten-year-old child diagnosed to have Juvenile Rheumatoid Arthritis.
8. Village Based Rehabilitation for child with Myopathy.
9. Developmental screening tests.
10. Management of child with autism.