Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – 21-Jul-2020

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

Paper – 1 – Principles of Physiotherapy Practice & Research Methodology & Biostatistics

(Revised Scheme)

Q.P. CODE: 8111

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

LONG ESSAY **2 X 20 = 40 Marks**

1. Define International Classification of Functional Disability and Health (ICF). Write down the detailed documentation procedures adapted in terms of assessment and management in rehabilitation.
2. Describe in detail the processing and analysis of data.

SHORT ESSAY **6 X 10 = 60 Marks**

3. Discuss the scope of physiotherapy in hospitals.
4. Discuss about Problem Oriented Medical Records (POMR) in physiotherapy.
5. Types of research
6. Discuss the ethical issues in Physiotherapy practice.
7. Describe the various stages of development of physiotherapy profession.
8. Discuss about sampling distributions.

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Master of Physiotherapy Degree Examination – 27-Jul-2020

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

PHYSICAL AND FUNCTIONAL DIAGNOSIS
PAPER – III (RS & RS 2)
Q.P. CODE: 8113

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

LONG ESSAY **2 X 20 = 40 Marks**

1. Discuss in detail various assessment techniques used to detect developmental anomalies.
2. Electro diagnostic testing and its importance in physiotherapy

SHORT ESSAY **6 X 10 = 60 Marks**

3. Evoked potential studies
4. Motor control assessment
5. Scales used in musculoskeletal disorders
6. ABG analysis and its interpretation
7. Components of Musculoskeletal assessment
8. Lower limb tension testing and its significance

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy – Part II Degree Examination – 21-Jul-2020

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

PHYSIOTHERAPEUTICS

Q.P. CODE: 8114

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

LONG ESSAY **2 X 20 = 40 Marks**

1. Describe Different Schools of thought in Manual therapy.
2. Explain exercise testing and prescription in Obese Patients.

SHORT ESSAY **6 X 10 = 60 Marks**

3. Differentiate Aerobic and anaerobic exercise in terms of energy expenditure.
4. Explain Bobath Technique in detail
5. Discuss significance of yoga in physiotherapy
6. Explain Pulmonary Rehab in detail
7. Functional Electrical stimulation
8. Use of Electrical stimulation as a diagnostic and therapeutic tool.

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Master of Physiotherapy Degree Examination – 23-Jul-2020

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

Musculoskeletal & SPORTS PHYSIOTHERAPY

(RS–3 & RS–4)

Q.P. CODE: 8115

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

LONG ESSAY **2 X 20 = 40 Marks**

1. Discuss philosophical differences in Cyriax, Kaltenborn and Maitland approaches.
2. Physiotherapy management in acute neck pain.

SHORT ESSAY **6 X 10 = 60 Marks**

3. Physiotherapy management of spinal canal stenosis.
4. Physiotherapy following ankle sprain.
5. Post operative management after partial meniscectomy.
6. Explain the role of clinical reasoning in Manual therapy.
7. Physiotherapy management for plantar Fasciitis
8. Discuss role of biofeedback.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – 23-Jul-2020

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

Neurological and Psychosomatic Disorders

Q.P. CODE: 8116

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

LONG ESSAY **2 X 20 = 40 Marks**

1. Explain pathophysiology of Neurogenic bladder and its rehabilitation.
2. Recent advances on aids and appliances on improving gait in Stroke subjects

SHORT ESSAY **6 X 10 = 60 Marks**

3. Vestibular rehabilitation in BPPV
4. Somatosensory evoked potential
5. Explain the scales to measure the upper limb functions in Stroke.
6. Discuss the barriers which affect the gait in Stroke.
7. Discuss the management of complications in head injury subjects.
8. Theories of motor control

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Master of Physiotherapy Degree Examination – 23-Jul-2020

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

COMMUNITY REHABILITATION

Q.P. CODE: 8118

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

LONG ESSAY **2 X 20 = 40 Marks**

1. What are the indications and contraindications for exercise testing and prescription during pregnancy?
2. What are the ergonomic principles associated with manual material handling? Describe the use of the National Institutes of Occupational Safety and Health equation for safe lifting.

SHORT ESSAY **6 X 10 = 60 Marks**

3. A person of 60 is a stroke survivor with gait, and hand dysfunction. Describe the role of institutional based rehabilitation and community based rehab in this context with goals, strategies and justification for each member of the rehab team.
4. Describe using the CBR matrix, the role of a CBR team in the life of a young man with Down syndrome with specific discussion of activity and participation
5. What are the theories of aging?
6. Discuss the principles of work conditioning.
7. What is the evidence for physical activity in hypertension?
8. Discuss the usefulness of lab based fitness tests in exercise prescription for geriatric population.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – 23-Jul-2020

[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 questions

LONG ESSAY **2 X 20 = 40 Marks**

1. Biomechanical analysis of Posture
2. Pulmonary function test

SHORT ESSAY **6 X 10 = 60 Marks**

3. Motor learning theories
4. Physical fitness assessment
5. Nerve conduction studies in peripheral nerve injury
6. Anthropometric measurements
7. Types of aids and appliances used to improve movement dysfunctions in cerebral palsy
8. Analysis of Gait deviations in Parkinsonism and Hemiplegic patients

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Master of Physiotherapy Degree Examination – 27-Jul-2020

[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 questions

LONG ESSAY **2 X 20 = 40 Marks**

1. Give a brief description of exercise tolerance tests, methods and principles of exercise prescription.
2. Cancer rehabilitation Protocol and General Guidelines of management

SHORT ESSAY **6 X 10 = 60 Marks**

3. Maitlands principles of assessment and treatment
4. Role of physiotherapy in psychiatric conditions
5. Exercise prescription for cardiovascular disease
6. Recent advances in management of osteoarthritis
7. Explain in detail about artificial respirators and their uses.
8. Muscle energy Techniques

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – 29-Jul-2020

[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 questions

LONG ESSAY **2 X 20 = 40 Marks**

1. Discuss in detail the physiotherapy management based on recent advances for a 35-year-old male hockey player who has been referred by an orthopedic surgeon after ACL reconstruction using a bone patellar tendon graft.
2. Discuss the clinical assessment and differential diagnosis for patient with low back pain.

SHORT ESSAY **6 X 10 = 60 Marks**

3. Kinetic and kinematics of gait in a patient with ankle dorsiflexor weakness
4. Discuss the importance of core stabilization training program in sports rehabilitation.
5. Discuss different myofascial release techniques for trapezius pain.
6. Explain the physiotherapy management for a patient following reduction of anterior shoulder dislocation.
7. Explain the physiotherapy management for metabolic bone disorders.
8. Explain the method of physical disability evaluation for above knee amputation.

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Master of Physiotherapy Degree Examination – 29-Jul-2020

[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 questions

LONG ESSAY **2 X 20 = 40 Marks**

1. Write about syringomyelia and its clinical features, assessment and PT management of Syringomyelia in 35 years old male at level T4-T5 since 2 years.
2. Explain the PT approaches for recovery of function and mobility following thoracic level spinal cord injury.

SHORT ESSAY **6 X 10 = 60 Marks**

3. Gait management in cerebellar Ataxia.
4. P.T management of Hypoxic Encephalopathy.
5. Define Tremors, its classification and PT management.
6. Postural management in Parkinson’s Disorders.
7. Write a note on constraint induced movement therapy in stroke.
8. PT management of C5-C6 IVDP duration 3 weeks.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – 29-Jul-2020

[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 questions

LONG ESSAY **2 X 20 = 40 Marks**

1. Explain the role of the use of Non-Invasive Ventilation as a management strategy in Chronic obstructive pulmonary disease and support it by giving evidences.
2. Outline and explain Phase I Cardiac Rehabilitation post Coronary artery bypass Surgery, based on the Goals, Evaluation, Exercise prescription and patient education.

SHORT ESSAY **6 X 10 = 60 Marks**

3. Explain the physiological rationale and clinical application of Autogenic Drainage technique.
4. Describe the various outcome measures used in cardiac disorders based on their Psychometric properties.
5. Write about Spirometry and its implications in Pulmonary Rehabilitation.
6. Physiotherapy techniques to decrease work of breathing and increase lung volumes
7. Explain the biomechanical factors that influence breathing.
8. Explain about the various Physiotherapy management strategies used in patients with Organo phosphorus Compound Poisoning (OP) in ICU.

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Master of Physiotherapy Degree Examination – 29-Jul-2020

[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 questions

LONG ESSAY **2 X 20 = 40 Marks**

1. Describe with example the role of National and International non-governmental agencies in prevention of disabilities.
2. Describe the risk factors for falls in the elderly. Describe the role of strengthening exercises in fall prevention.

SHORT ESSAY **6 X 10 = 60 Marks**

3. What are work related musculoskeletal disorders (WRMSD)? What are the common WRMSD associated with visual display units?
4. What are the assessment methods for identification of children with developmental delay in the community?
5. Describe the scope, role and responsibilities of the physiotherapist in community health promotion.
6. describe the physiological changes that occur with aging in the neuromusculoskeletal system.s
7. Describe with an example international classification of functioning health and disease and the usefulness of this model for goal setting in physiotherapy.
8. Anlayse the need difference between work hardening and work conditioning programs in rehabilitation of workers with low back pain.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – 29-Jul-2020

[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 questions

LONG ESSAY **2 X 20 = 40 Marks**

1. Enumerate types of gait patterns in children with Cerebral Palsy and their orthotic management.
2. Describe types of Behavioural disorders and their management strategies. Add a note on recent advance in behavioural disorders.

SHORT ESSAY **6 X 10 = 60 Marks**

3. Management of restrictive lung conditions in children
4. Assessment of a child with spina bifida
5. Management strategies for childhood obesity
6. Differential diagnosis in a floppy infant
7. Components of genetic counselling
8. Post-operative management for a baby with congenital diaphragmatic hernia

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