Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination
September 2007

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

BASIC SCIENCES

QP Code : 8101

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 major types of Research Designs & discuss how they differ from each other.
2. Discuss the biomechanical factors influencing posture in a patient having chronic obstructive pulmonary disorder.

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

3. Oxygen debt
4. Components of electrophysiological assessment devices
5. Biomechanics of respiration
6. Muscle work and environmental factors influencing the same
7. Diet & obesity
8. Chi-square test

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination
September 2007

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

PHYSICAL AND FUNCTIONAL DIAGNOSIS – I & II

QP Code : 8102

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. Assessment of voluntary control of movement - a review
2. Electrodiagnosis in physiotherapy practice add a note on relevance and importance of the same.

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

3. Gait analysis - various methods available
4. Aerobic fitness testing for sports
5. Assessment of falls in geriatric population
6. Facilitation techniques for strengthening muscles
7. Pulmonary function tests
8. Screening tools available for high-risk infants.

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September 2007

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

PHYSIOTHERAPEUTICS – I & II

QP Code : 8103

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. Role of physiotherapy in women's health (rural and urban).
2. Role of physiotherapy in a patient after myocardial infarction.

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

3. Physical therapy after flexor tendon injuries of hand
4. Physiotherapeutic management of osteo arthritic knee joint
5. Importance of pre operative physical therapy in abdominal surgery
6. Exercise planning in chronic respiratory condition
7. Uses of lasers in physical therapy with evidence
8. Role of physiotherapy in a psychiatric unit

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September 2007

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

P.T. IN CARDIORESPIRATORY DISORDERS AND INTENSIVE CARE

QP Code : 8104

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 the risk factors in coronary artery disease. Identify the role of physiotherapist in its rehabilitation
2. Discuss Pathomechanics of pulmonary edema. Discuss the physiotherapy management for pulmonary edema

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

3. Discuss the Role of Incentive Spirometry in Lung collapse
4. Clinical Test Used in Peripheral Vascular Disease
5. Effects of Aerobic Exercise on Cardiac Muscle
6. Cardio Pulmonary Resuscitation
7. Stress Testing
8. Nebulizer

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination
September 2007

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

P.T. IN MUSCULOSKELETAL DISORDERS AND SPORTS P.T.

QP Code : 8105

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. A computer operator presents with radiating pain in right upper extremity. Outline the clinical assessment and laboratory investigations. Draw a treatment plan for pain.
2. A javelin thrower complains of sudden severe pain in the shoulder during the throw. Analyze the injury. Plan short & long term management.

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

3. Prosthesis – check in a above knee amputee
4. Prescription of footwear in leprosy patient with lateral popliteal nerve palsy.
5. Assessment of posture in a patient with Hemi-vertebra at the thoracic 6 level
6. Kinetics and kinematics of gait in a patient with quadriceps weakness
7. Disability evaluation
8. Rationale of neural mobilization in low backache

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination
September 2007

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

P.T. NEUROLOGICAL AND PSYCHOSOMATIC DISORDERS

QP Code : 8106

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. Outline the functional areas of cerebral cortex. List down the problems in individual with left sided MCA infarct. Write physiotherapy plan for this patient.
2. Write an essay on theories of motor control and their clinical application

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

3. Describe electromyographic changes in neurogenic and myogenic disorders
4. Rationalise the physiotherapy treatment in brown sequard syndrome
5. Describe the changes in the motor control in Parkinson's disease
6. Explain the gait deviations in central nervous system lesions
7. Explain the use of EMG biofeed back in patients with Hemiplegia
8. Describe assessment of coordination

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination
September 2007

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

COMMUNITY PHYSICAL THERAPY AND COMMUNITY BASED REHABILITATION

QP Code : 8107

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. Identify the method of disability evaluation. List the schemes available for the disabled as per government policy. Architectural barriers to progress.
2. Role of physiotherapy in industrial health

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

3. Ergonomic advice for school children.
4. Physical fitness for women
5. Community based rehabilitation
6. Home exercise program for backache
7. Importance of public awareness to developmental disabilities
8. Modes of transfer of skills in rural health centers.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination
September 2007

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

PAEDIATRIC PHYSIOTHERAPY

QP Code : 8108

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 development of locomotion.
2. Discuss the importance of early detection of brain damage and early institution of treatment in cerebral palsy.

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

3. Scales for testing balance in children
4. Meconium aspiration: P.T. management
5. Bladder dysfunction and management in spina bifida
6. Role of physiotherapist in neonatal intensive care unit
7. Rood's approach
8. Down's syndrome

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