8101_2009_1_S46

Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination - May 2010

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

BASIC SCIENCES

Q.P. 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. Explain in detail various methods of electro physiological testing
2. Write in detail how will you analyse posture

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

3. Work capacity evaluation
4. Neuro muscular electrical stimulation
5. Prehension
6. Body composition assessment
7. Muscle plasticity
8. Food exchange and calorific balance

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination - May 2010

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

PHYSICAL AND FUNCTIONAL DIAGNOSIS – I & II

Q.P. 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. How will you assess movement dysfunction? Also enumerate evaluation of postural deviations

2. What is the use of ECG interpretation for a physiotherapist?

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

3. Body composition
4. Microwave diathermy
5. Friction massage
6. PNF techniques
7. Roods approach
8. Gait deviation in parkinsonism patients

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – May 2010

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

PHYSIOTHERAPEUTICS – I & II

Q.P. 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. Physiotherapy management following head injury in the intensive care unit
2. Pulmonary disorders and physiotherapy

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

3. Physiotherapy management of neural pain
4. Importance of MET values in exercise prescription
5. Physiotherapy management in an extensive anterior wall myocardial infarction
6. Role of physiotherapist in post natal care
7. Exercise prescription in sub acute phase of juvenile rheumatoid arthritis
8. Effect of isometric exercise on cardiac function in normals and clients with cardiac diseases

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8104_2009_1_S132

Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – May 2010

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

P.T. IN CARDIORESPIRATORY DISORDERS AND INTENSIVE CARE

Q.P. 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. Write in detail Cardiac rehabilitation program after myocardial infarction

2. Compare pulmonary function test and arterial blood gas analysis in respiratory condition and its implication in physiotherapy management

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

3. Discuss Nebulization

4. Exercise prescription in peripheral arterial disorders

5. Discuss ANS dysfunction testing in cardiovascular patients

6. Discuss ACBT and AD

7. Discuss the complications following upper abdominal surgery and what are the physiotherapy management following upper abdominal surgery

8. Cardio pulmonary resuscitation

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – May 2010

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

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

Q.P. CODE: 8105

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

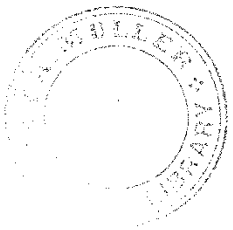
LONG ESSAY **2 X 20 = 40 Marks**

1. AN 8 year old female child wants to pursue a career in gymnastics. How will you prepare her physical fitness programme
2. A 30 year old man professional carrom player. Chronic, underwent undergone excision arthroplasty of the hip 1 week back. Plan his short term and long term P.T. management

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

3. What is mechanical insufficiency of quadriceps muscles? What therapeutic measures will be undertaken to overcome it?
4. What are different types of crutches you know of ? Discuss various orthopedic crutch gaits with pre crutch training programme
5. Principles of physiotherapy management in anterior cruciate ligament reconstruction
6. Discuss different soft tissue mobilization techniques
7. Discuss "End feel" in detail
8. Discuss pathomechanics involved in ulnar nerve palsy in hand

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8106_2009_1_S51

Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – May 2010

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

P.T. NEUROLOGICAL AND PSYCHOSOMATIC DISORDERS

Q.P. 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. Describe the symptomatology of lesion of middle cerebral artery. Write on physiotherapy evaluation and management of the patient
2. Write in detail on electrophysiological studies with respect to neuropathophysiology

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

3. Assessment of consciousness
4. "Sensory integration" in neurotherapeutics
5. Neural control of locomotion in human beings
6. Evaluate and prescribe the orthosis for neurogenic hand
7. Evaluation of autonomous nervous system
8. Role of physiotherapist in "Parkinson's and movement disorder society"

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LT. M. MULLER MEDICAL LIBRARY

8107_2009_1_S43

Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – May 2010

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

COMMUNITY PHYSICAL THERAPY AND COMMUNITY BASED REHABILITATION

Q.P. 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. Discuss reasons for prevalence and importance of management of obesity in children
2. Discuss the need for community based rehabilitation in India

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

3. Role of relaxation in stress management
4. Prevention of occupational pain in industry
5. role of holistic physiotherapy in aged
6. Importance of early intervention
7. Society and physically challenged person
8. Osteoporosis and exercises

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8108_2009_1_S49

Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – May 2010

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

PAEDIATRIC PHYSIOTHERAPY

Q.P. 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. Write in detail the management of learning disorders
2. Write in detail the management of idiopathic respiratory distress syndrome in neonates

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

3. Role of community based rehabilitation in paediatrics
4. Significance of early detection of neuro-developmental disorders
5. Significance of arterial blood gas analysis
6. Electro diagnostic studies in brachial plexopathy
7. Congenital talipus equino varus
8. Neurogenic bladder

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8111_2010_1_S155

Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – May - 2010

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

Paper – 1 – Principal 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. Classify the types of research design. Describe each type in detail giving examples.

2. Define the term International classification of function (ICF). Identify the domains and describe in details each domain its uses with examples.

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

3. Write on the ethical issues that govern clinical practice and research.

4. Describe the scope of physiotherapy practice in community and industry.

5. What is Analysis of variance? List the types and explain any one in detail.

6. Explain the significance of establishing a confidence interval (CI)

7. Enumerate the commonly used scales for development in pediatrics. Explain in detail any ONE giving its psychometric properties

8. Bonferroni t – Test Give its uses.

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8112_2010_1_S152

Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – May - 2010

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

Paper – II – Biomechanics, Exercise Physiology & Electrophysiology (Revised Scheme)

Q.P. CODE : 8112

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 glucose metabolism during exercise and its relevance in exercise prescription for type II diabetes mellitus
2. Explain the concept of health & physical fitness. Explain assessment of flexibility.

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

3. Explain in detail properties of ligament tissue & related mechanics
4. Assessment of fatigue
5. Explain Importance of ergonomics in occupational health with relevant examples.
6. Explain biomechanics of normal respiratory movements
7. Explain physiology of normal neuromuscular junction transmission
8. Explain cardiovascular conditioning effect following exercise training

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – May - 2010

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

Paper – III – Physical & Functional Diagnosis

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. List the various methods used to measure pulmonary function. Describe each method in detail and support the benefits with evidence.
2. Identify the various methods and scales that can be used to assess muscle tone. Explain each one in detail indicating their usefulness.

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

3. Describe methods used in Biofeedback as a tool in practice.
4. Write a note on pulmonary function tests.
5. Explain in detail the Glasgow coma scale and its importance in practice.
6. Describe various methods used in anthropometric measurements.
7. Types of imaging used in neurological dysfunction.
8. Write on righting reflexes used in development screening

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination - October 2010

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

BASIC SCIENCES

Q.P. 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. Biomechanics of hand
2. Factors influencing normal posture

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

3. Electrical stimulation in physiotherapy
4. Body composition in obesity
5. Importance of kinematic investigation in physiotherapy assessment
6. Mechanism of pain transmission
7. Assessment of fatigue
8. Methods of gait assessment

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Rajiv Gandhi University of Health Sciences

MASTER OF PHYSIOTHERAPY DEGREE EXAMINATION - October 2010

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

PHYSICAL AND FUNCTIONAL DIAGNOSIS – PARTS I AND 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. Write in detail about physical disability evaluation and disability diagnosis
2. Describe how will you investigate case of 50 year old man with left sided weakness

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

3. LASER
4. Spirometer and its interpretations
5. Gait deviations in the presence of quadriceps weakness
6. Somatosensory evoke potential
7. ECG testing and its interpretations
8. Mc Kenzie technique

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – October 2010

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

PHYSIOTHERAPEUTICS – I & II

Q.P. 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. Explain in detail about Anterior cruciate ligament reconstructive procedures of knee and add a note on rehabilitation protocol following reconstructive surgery.
2. Write in detail about ATP – PCr and beta oxidation and enumerate principles of exercise prescription for obesity reduction.

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

3. Explain forced expiratory techniques and it's uses
4. Write in brief about cognitive behavioral therapy.
5. Management of causalgia
6. Preventive measures to maintain spinal flexibility in ankylosing spondylitis.
7. Role of electrical stimulation and biofeedback in reeducation of muscle activity.
8. Explain in detail about prevention and management of Grade- III bedsores.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – October 2010

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

P.T. IN CARDIORESPIRATORY DISORDERS AND INTENSIVE CARE

Q.P. 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. Write down the physiotherapy management of individual with Guillian Barre syndrome on ventilator.
2. Discuss the physiotherapy management for an individual with peripheral vascular disease.

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

3. Describe the conduction system of heart and explain the different types of pacemakers.
4. Sputum Evaluation and postural drainage.
5. Aerosol therapy
6. Energy conservation techniques and work of breathing.
7. Describe the various relaxation positions in asthama.
8. Autogenic drainage technique – explain its physiological rationale and clinical application.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – October 2010

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

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

Q.P. 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. Discuss the phases of throwing, muscular activity involved and a note on the pathomechanics of an unstable shoulder joint.
2. Describe the mechanical properties of articular cartilage and its response to injury, immobilization and rehabilitation.

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

3. Kinetics of patellofemoral joint during squat exercises.
4. Fat metabolism and energy production.
5. Edwards concept of combined movements.
6. Osteo-chondritis dissecans.
7. Evaluation of back pain in a swimmer.
8. Golfer's elbow.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination - October 2010

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

P.T. NEUROLOGICAL AND PSYCHOSOMATIC DISORDERS

Q.P. 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. Define spasticity. Explain the pathophysiology and methods for evaluation of tone in neurological disorders
2. Explain in detail about the instrumentations of electromyography.

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

3. Write in detail about lateral spino thalamic tract and its functions.
4. Brainstem evoked potentials.
5. Use of assistive aids in locomotor disability
6. Clinical feature's and pathophysiology of cerebellar disorders.
7. Functions of limbic system.
8. Role and need of community based rehabilitation in neurological disorders.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – October 2010

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

COMMUNITY PHYSICAL THERAPY AND COMMUNITY BASED REHABILITATION

Q.P. 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. Discuss the advantages and disadvantages of Community Based Rehabilitation and Institutional Based Rehabilitation.
2. Discuss the role of physiotherapy in Antenatal care and postnatal care.

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

3. Public Awareness to various disabilities.
4. Home Exercise program for Diabetics.
5. Role of postural correction exercise in elderly
6. Public health education to prevent coronary artery diseases.
7. Role of government in Community Based Rehabilitation program.
8. Importance of survey in disability detection.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – October 2010

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

PAEDIATRIC PHYSIOTHERAPY

Q.P. 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 acute brain injury in children and its management
2. Discuss physiotherapy management in common cardiac diseases in children

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

3. Role of special educator in paediatric setting
4. Erb's palsy
5. Role of sensory system in balance training
6. Normal development of speech and communication
7. Developmental screening
8. Orthotic management of proximal focal femoral deficiency in a child

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – October 2010

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

Paper – 1 – Principal 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. Discuss the various types of research design with examples.

2. Discuss the methods of documentation of clinical assessment in physiotherapy practice

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

3. Sampling and sampling design.
4. Reliability evaluation
5. Elements of Informed consent
6. Autonomy and Confidentiality in physiotherapy practice.
7. Systematic Review.
8. Nonmaleficence in ethics.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – October 2010

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

Paper – II – Biomechanics, Exercise Physiology & Electrophysiology
(Revised Scheme)

Q.P. CODE : 8112

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. Normal Electrical changes occurring in the Nerve and Muscle during a Muscle contraction.
2. Describe in detail the various methods of Kinematics and Kinetics investigations during gait.

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

3. Note on Electro Physiology assessment devices.
4. Give the effects of Electrical Stimulation in various system.
5. Considerations for exercise prescription in obesity
6. Sagittal plane analysis of posture.
7. Cardio – respiratory changes during Muscle work.
8. Prehensions and grips

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – October 2010

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

Paper – III – Physical & Functional Diagnosis

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. Write an essay on physical disability evaluation.
2. Enumerate in detail the Theories of motor learning

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

3. Anthropometric measurements
4. Assessments of fall in Geriatric Population
5. Screening tools for High – risk infants
6. Exercise ECG testing
7. Electro – diagnosis in radiculopathy
8. Pulmonary function testing

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