8111_2011_1_5153

Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – May 2011

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

Paper – 1 – Principal of Physiotherapy Practice & Research Methodology & Biostatistics
(RS & RS 2)

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. What are the steps involved in research process?
2. Explain ethical issues in academic field of undergraduate & post graduate education in physiotherapy

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

3. Ethical rules & regulation to physiotherapy practice issued by WCPT
4. What is the scope for physiotherapists in various sectors of industry?
5. What is the importance of patient documentation in physiotherapy clinical practice?
6. Methods of data collection
7. Explain parametric and non parametric tests with physiotherapy examples.
8. Epidemiological study designs.

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LIBRARY

Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – May 2011

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

Paper – II – Biomechanics, Exercise Physiology & Electrophysiology (RS & RS 2)

Q.P. CODE : 8112

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

2 X 20 = 40 Marks

LONG ESSAY

1. Identify the various Ergonomic guidelines required to plan a work station for a computer professional. Explain each principle in detail.
2. Identify the various electrical currents that can be used in stimulation of the neuromuscular system. Describe the features for each type of current and their effects on nerve and muscle.

6 X 10 = 60 Marks

SHORT ESSAY

3. Exercise prescription for obesity
4. Write a note on integrated EMG studies.
5. Write an essay on the influence of temperatures and altitude on the body systems during exercises.
6. Can electrical stimulation alter muscle plasticity? Explain your response in detail with examples and evidence
7. Describe the kinetics and Kinematics of lumbar spine and its impact on core stability exercises.
8. Write a note on Krebs Cycle with reference to rest and exercise.

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8114_2011_I_S251

Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Part II Degree Examination – May 2011

[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

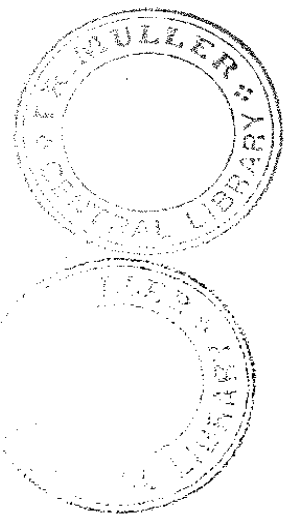
1. Explain in detail the neurobiology of pain, various theories and the mechanism of pain relief with the application of physiotherapeutic modalities
2. Describe the concept of repeated movements with emphasis on the treatment of lumbar region

SHORT ESSAY

6 X 10 = 60 Marks

3. Explain the effects of massage on various systems
4. Application of ultraviolet radiation in various skin conditions
5. Explain the significance of closed kinetic chain exercises following post surgery of the lower extremity conditions
6. Physiotherapeutic application in pelvic inflammatory disease
7. Explain cancer rehabilitation evaluation system (CARES) and guidelines for nutirtion and physical activity for cancer prevention
8. Calculation of ultrasound dosimetry for a chronic lesion of anterior capsule of glenohumeral joint

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8115_2011_I_S25t

Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Part II Degree Examination – May 2011

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

MUSCULOSKELETAL DISORDER AND SPORTS

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. A 40 year old executive with complaints of pain around the mid thoracic spine region of gradual onset proveoked by activity. Make a provisional diagnosis by clinical reasoning and rationalizing differential diagnoses. Write about the assessment and treatment for the same
2. Explain the effectiveness of weight bearing strengthening program for older in patients undergoing rehabilitation – recent advance

SHORT ESSAY 6 X 10 = 60 Marks

3. Stress reduction strategies used by sports psychologists for enhancement of athletic performance
4. Explain the technique of Mulligan's movement with mobilization for sacroiliac joint dysfunction
5. Functional capacity evaluation for a computer professional
6. Rationale for implementing closed kinetic exercises following ACL reconstruction
7. Differences and similarities between diffuse idiopathic skeletal hyperostosis and ankylosing spondylitis and their management
8. What is physiological cost index? Significance of PCI measurement in rheumatoid patients

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy part II Degree Examination – May 2011

[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

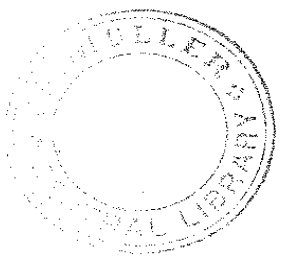
LONG ESSAY **2 X 20 = 40 Marks**

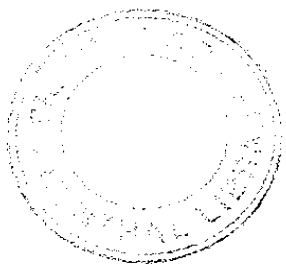
1. Define motor control. What are the various theories of motor control? Add a note on the clinical implications for each.
2. Write about recent advances in improving gait endurance in chronic stroke subjects.

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

3. Write about perceptual disorders – testing and treatment.
4. Explain the ICU management in head injury patients.
5. Write about patho – physiology of parkinsons disease.
6. Differentiate between UMN and LMN neurogenic bladder and write about its physiotherapy management.
7. Explain in detail the balance assessment for a cerebellar ataxia patient.
8. Write about physiotherapy management of a post polio syndrome patient.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Part II Degree Examination – May 2011

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

CARDIO RESPIRATORY DISORDERS

Q.P. CODE : 8117

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 principles of physiotherapy practice in the ICU? Discuss physiotherapy in intensive care with emphasis on assessment, monitoring handling an techniques
2. Discuss the recent advances in the use of pulmonary rehabilitation in oncology patients

SHORT ESSAY 6 X 10 = 60 Marks

3. Describe the significance of knowing the anatomical and physiological differences betwee adult and pediatric cardiopulmonary system by a physiotherapist handling infants
4. What are the manifestations of IHD? Briefly describe cardiac rehabilitation emphasizing the goals, team, role of physiotheriest and rationale for cardiac rehabilitation
5. What is hypertension? What are the preliminaries in prescribing exercise training for hypertensive patients? Describe cueens step test to calculate and plan out an exercise programme for a 35 year old hypertensive male
6. Briefly explain cardiopulmonary resuscitation
7. How do physiotherapy skills of positioning and mobilization helps in managing patients with cardiopulmonary dysfunction
8. What problems do you see and changes will you recommend to provide proper home environment for a wheel chair bond patient with trachesotomy, who requires mechanical ventilation, discharged to the home care setting

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy part II Degree Examination – May 2011

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

Pediatrics

Q.P. CODE: 8119

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 Muscular dystrophies. Mention its types and clinical features. Explain PT assessment and management for Duchenne Muscular Dystrophy in patient aged 10 years based on school level activity
2. Write about recent advances in management of Functional skills in children with Myelomeningocele

SHORT ESSAY 6 X 10 = 60 Marks

3. Explain the long term PT management for 13 year old boy with cauda Equina injury.
4. Explain developmental screening by using any two scales.
5. Write about scissoring Gait and its PT management
6. Uses of Hydrotherapy in paediatric rehabilitation
7. Explain the principles of Neuro development therapy and brief about the management of CP by applying NDT principles.
8. Write about congenital dislocation of Hip and its PT management

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Rajiv Gandhi University of Health Sciences

MASTER OF PHYSIOTHERAPY DEGREE EXAMINATION - Nov 2011

[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. How will you investigate a case of myocardial infarction
2. Discuss the neurodevelopment assessment and motor learning

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

3. Inhibition and facilitatory techniques in treatment of stoke patients
4. Psycho physiological tests
5. Thermal modalities
6. Functional outcomes in patients with complete spinal cord injury
7. Assessment of muscle strength
8. Pain evaluation methods

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination - Nov 2011

[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. Define posture and postural sway. Explain in detail about the forces occurring in symmetrical stance.
2. Explain in detail about electrical stimulation for improving muscle performance.

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

3. Informed consent and the researcher's role in ethical treatment
4. Chi Square test
5. Write a note on nerve conduction velocity studies.
6. Essentials of good nutrition.
7. Cardiac functional changes during exercise.
8. Biomechanical properties of bone.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – Nov 2011

[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. Describe the primary cardiopulmonary pathophysiology in acute, exacerbations of choric airflow limitation and it's PT management
2. Physiotherapy protocol for total knee replacement

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

3. Explain about motor learning & performance
4. Role of EMG biofeed back in physiotherapy
5. What neurological conditions are generally associated with dysphagia
6. Exercise planning and prescription
7. Indications for tendon transfer and it's physiotherapy management
8. Relate cardiopulmonary physical therapy interventions to the underlying pathophysiology of chronic bronchitis

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination - Nov 2011

[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. Discuss about the types of motor neuron Disease and explain in detail the clinical features and physiotherapy management of any one type
2. Discuss about Ecological theory and Neuronal Group Selection theory? Cite their implications in Neurorehabilitation

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

3. Abnormal EMG activities at rest
4. Gait Rehabilitation for Parkinson's disease
5. Hemiplegic shoulder
6. Benign paroxysmal positional vertigo
7. Cerebellar dysmetria and its management
8. Rancho-Los-Amigo Scale

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – Nov 2011

[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. Sport specific evaluation for a sprinting athlete following lateral ligament injury rehabilitation of right ankle for return to sport.
2. Describe the Mckenzie's approach to the vertebral column.

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

3. Nutritional requirements in long distance runners during training.
4. Open kinematic (Vs) closed kinematic chain training.
5. Recurrent anterior dislocation of shoulder.
6. Metabolic diseases of bone.
7. Assessment of deformities in a rheumatoid hand.
8. Sports psychology.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – Nov 2011

[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. Discuss recent trends in cardiac rehabilitation
2. Discuss concept of work of breathing in health & disease

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

3. Physiotherapy management of occupational lung disease
4. Factors affecting mucuciliary transport
5. Management of venous ulcer
6. Functional outcome measures related to pulmonary rehabilitation
7. Abnormal ECG findings
8. Measures to improve ventilation

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – Nov 2011

[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 need and Execution of community based rehabilitation programs.
2. Discuss the importance of physiotherapy for the Aged.

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

3. Role of Physiotherapy in Antenatal Care.
4. Persons with disability Act – 1995
5. Stress management for Executive personnel.
6. Home exercise program for Backache.
7. Importance of Early intervention.
8. Institutional based Rehabilitation services.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Part II Degree Examination – Nov 2011

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

MUSCULOSKELETAL DISORDER AND SPORTS

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. Write an essay on "functional assessment is an essential component of physical therapist evaluation
2. Recent advances on effectiveness of exercise on back pain in children

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

3. Trigger points
4. Scapular kinematics in shoulder joints dysfunction
5. Role of open and close kinematic chain exercises after anterior cruciate ligament injury
6. Physiotherapy management for complex regional pain syndrome
7. Electrodiagnostic studies in lower motor neuron lesions
8. Discuss the role of orthosis in polio patients

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Part II Degree Examination – Nov 2011

[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. Explain in detail the various phases of cardiac rehabilitation for a patient of 50 years who has undergone CABG surgery
2. Describe the facilitation and inhibitory techniques used for various neurological conditions

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

3. Physiotherapeutic strategies for cancer pain management
4. Principles of Mulligan concept
5. Short term and Long term goals and exercise therapy techniques for a child with muscular dystrophy
6. Principles and technique of electrical stimulation for erbs palsy
7. Role of ultrasound and laser therapy in the management of pressure sores
8. Physiotherapy management for post natal conditions.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – Nov 2011

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

Paper – III – Physical & Functional Diagnosis
(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. Identify and explain the principles of musculoskeletal assessment process
2. What is exercise stress testing? What are the indications and methods of stress testing? What are the criteria for termination of exercises? Describe the observation to make during stress test and the interpretation of the exercise test.

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

3. Describe the assessment procedure for a patient with pulmonary disease.
4. What are the typical EMG and NCV findings with peripheral nerve lesions, myopathy and motor neuron disease?
5. Describe and analyse in a sagittal plane the common gait deviations at Knee during the stance phase and mention the possible causes.
6. Explain the components of muscular fitness. Describe the methods of assessing the same
7. Outline a general parallel bar progression that would be appropriate for a patient preparing to use a partial weight bearing crutch gait.
8. Describe the specific purposes for assessing pulmonary function. What are the principles of measurement?

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – Nov 2011

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

Paper – II – Biomechanics, Exercise Physiology & Electrophysiology (RS & RS 2)

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. Describe loading of the spine and compare loads on the lumbar spine during standing, sitting and reclining. Explain Static loads on the lumbar spine during lifting
2. Describe the several important principles that need to be considered when designing resistance training program

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

3. Describe the structural components and the long term effects on structural functions in forward head posture.
4. What effect does COPD have on the inspiratory muscle?
5. Define microgravity. Explain the physiological alteration with chronic microgravity exposure. Add a note on exercise as a counter means to microgravity.
6. Describe the indication for use of Faradic type current.
7. Discuss in detail the health risks associated with hyperbaric conditions.
8. Why do athletes with high VO_2 max values perform better in endurance events than those with lower values?

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – Nov 2011

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

Paper – 1 – Principal of Physiotherapy Practice & Research Methodology & Biostatistics
(RS & RS 2)

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. What is the importance of use of standardized scales in physiotherapy assessment? Explain criteria for selection of ideal scale by physiotherapists?
2. Explain the steps in research process.

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

3. Write a note on historical development of physiotherapy profession
4. Ethical rules related to physiotherapy practice issued by Indian Association of physiotherapists (IAP)
5. Methods of Sampling
6. Write an essay on patient consent & patient communication in physiotherapy practice.
7. Importance of reliability & Validity in research process.
8. Describe various tests for analysis of various & co – variance.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Degree Examination – Nov 2011

[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. Describe various treatment philosophies and approaches for management of sensory processing disorders in children
2. Management of a child suffering from asthma

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

3. Genetic counseling in paediatrics
4. Management of aphasia
5. Ventilators
6. Orthotic considerations for a child suffering from post polio residual paralysis involving left lower limb
7. Management of myopathic disorders of childhood
8. High risk babies

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy part II Degree Examination – Nov 2011

[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. Describe the physiology of micturition. Explain in detail about the assessment, medical and physiotherapy management for UMN and LMN neurogenic bladders.
2. Write about recent advances in the management of arm in chronic stroke subjects.

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

3. Somatosensory evoked potentials.
4. Explain in detail about vestibular rehabilitation.
5. Write about the clinical features of multiple sclerosis and also exercise prescription in a patient aged 55 years with multiple sclerosis.
6. Explain the role of Basal Ganglia in Motor Control.
7. Describe the various facilitatory and inhibitory techniques with rationale.
8. Explain the clinical features of Ataxic CP and its PT management.

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Part II Degree Examination – Nov 2011

[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. Design a work hardning program for track athlete after an ACL injury which has been conservatively managed from 1st month to 6th month post injury. Justify your program
2. Recent advance on post menopausal osteoporosis. Plan a treatment regimen for the same

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

3. Discuss the Indian legislation regarding worker safety
4. Explain the factors that influence fall in elderly. Discuss the prevention strategies for the same
5. What is care giver fatigue? Illustrate with a case scenario with respect to paediatric population. What is the role of physiotherapy in alleviation caregiver fatigue of the same scenario
6. Address the issues of patient with dementia. Discuss the role of physiotherapist for the same
7. Write an essay on: physiotherapy on diabetic neuropathy patient with emphasis on foot care and gait training in the community set – up
8. Describe various team approaches in the rehabilitation of disabled in the community set - up

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy Part II Degree Examination – Nov 2011

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

CARDIO RESPIRATORY DISORDERS

Q.P. CODE: 8117

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 general principles of physiotherapy management for respiratory failure
2. Recent advances on home based exercise for people with chronic heart failure

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

3. Enumerate the different outcome variables to measure the health related quality of life in patients with COPD. Describe any one in detail
4. Explain the development of respiratory system and the post natal development of lung structure and function
5. Compare the various protocol used in phase – 1 cardiac rehabilitation
6. What is Hyperventilation syndrome? Describe the treatment plan for the management of same
7. Describe the different breathing strategies used for airway clearance
8. Explain the rationale for laboratory investigations with regard to physiotherapy management in ICU

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Rajiv Gandhi University of Health Sciences

Master of Physiotherapy part II Degree Examination – Nov 2011

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

Pediatrics

Q.P. CODE: 8119

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. 15 years old girl having Spinal Deformity with curves measuring 45° right thoracic and 42° left lumbar. Write about of spinal deformity, its assessment and PT treatment giving importance to posture and postural correction.
2. Write about recent advances in improving the gait in children with spastic cerebral palsy

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

3. Explain about Functional training and parent education in 2 year old brachial plexus injury patients
4. What are the clinical features of Exercise induced bronchospasm in children? Write about PT management for the same giving importance to conditioning
5. What are developmental disorders? Write about screening tests to identify the gross motor functions in developmental disorders child
6. Write about motor learning and its application in treatment of paediatric conditions
7. Explain the pre participation assessment to prevent sports injuries in children
8. Explain the clinical features of ataxic CP and its PT management

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