



MGM INSTITUTE OF HEALTH SCIENCES, NAVI MUMBAI
(Deemed University u/s 3 of UGC Act, 1956)

M.P.Th – II UNIVERSITY EXAMINATION APRIL, 2015

SPECIALITY SUBJECT: **CARDIO PULMONARY PHYSIOTHERPY**

DURATION: **3 hrs**

PAPER : **PAPER – I (Applied Sciences)**

MARKS : **100**

INSTRUCTION:

1. All questions are compulsory and carry equal marks
2. Answers must be specific to the questions
3. Give neat, labeled and schematic diagram wherever applicable.
4. Mobile phones, pagers, blue tooth or any other such communication devices are not allowed in the Examination premises and in all adjacent area.

A. Long Questions (Compulsory):

1. Describe the Biomechanics of Respiration
2. Discuss the various guidelines of Cardio Rehabilitation
3. Discuss cardio pulmonary exercise capacity and enumerate various tests used to assess the dysfunction



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SPECIALITY SUBJECT: **CARDIO PULMONARY PHYSIOTHERAPY**

DURATION: **3 hrs**

PAPER : **PAPER – II (Recent Advances)**

MARKS : **100**

INSTRUCTION:

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A. Long Questions (Compulsory):

1. Discuss the role physiotherapy in ventilator Associated Pneumonia
2. Exercise training in Interstitial Diseases
3. Discuss role of respiratory muscle strengthening elaborate on physiological basic and based practice of respiratory



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SPECIALITY SUBJECT: **CARDIO PULMONARY PHYSIOTHERAPY**

DURATION: **3 hrs**

PAPER : **PAPER – III (Cardio Pulmonary Rehabilitation)**

MARKS : **100**

INSTRUCTION:

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A. Long Questions (Compulsory):

1. Discuss clinical evaluation and exercise prescription in Obstructive Sleep Apnea
2. Rationale for exercise prescription in childhood obesity
3. Discuss various therapeutic positioning in critical care unit. Discuss the physiology basis of early mobilization



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SPECIALITY SUBJECT: **CARDIO PULMONARY PHYSIOTHERPY**

DURATION: **3 hrs**

PAPER : **PAPER – III** (EXERCISE TESTING & CARDIO-PULMONARY FITNESS TRAINING)

MARKS : **100**

INSTRUCTION:

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A. Long Questions (Compulsory):

1. Discuss the assumption of submaximal exercise testing and advantages and disadvantages of the same one maximal testing.
2. Elaborate on the fitness programme of a 25 years old female athlete who is 3 month past partum suffering from low back pain and wants to participate in a loy distance rushing event 6 months
3. Describe abnanalites is exercise to lance is diabetic individuals and training techniques to address the same

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M.P.Th – II UNIVERSITY EXAMINATION APRIL 2013

SPECIALITY SUBJECT: CARDIOVASCULAR AND PULMONARY PHYSIOTHERAPY DURATION : 3 hrs

PAPER : PAPER – I (Applied Sciences)

MARKS : 100

INSTRUCTION:

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Long Questions (Compulsory):

1. Discuss the foetal development of the lung and pathophysiology of acute respiratory distress syndrome in neonates.
2. Describe the pathomechanics of the thorax following cardiac surgeries and management of the same.
3. Explain cough reflex, factors affecting cough and methods of enhancing coughing.

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PAPER : PAPER – II (Recent Advances)

MARKS : 100

INSTRUCTION:

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Long Questions (Compulsory):

1. Heart Rate Recovery in physiotherapy assessment and exercise training
2. Exercise training for peripheral arterial disease
3. Discuss the effect of different manual hyperinflation units for secretion clearance in mechanically ventilated patients.

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PAPER : PAPER – III (Cardio Pulmonary Rehabilitation)

MARKS : 100

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Long Questions (Compulsory):

1. Describe the risk factors of coronary artery disease. Describe the role of physiotherapy in cardiac rehabilitation.
2. Describe the rehabilitation programme for a patient with COPD.
3. What are the principles of physiotherapy practice in intensive care. Describe the Physiotherapy management of an unconscious patient on continuous mandatory ventilation mode of artificial ventilation.