

M.P.Th. (Cardiovascular and Respiratory Physiotherapy) (2012)
 Examination, Winter 2018
**ADVANCE IN CARDIOVASCULAR AND RESPIRATORY
 PHYSIOTHERAPY (Part – I) – III**

Total Duration : 3 Hours

Total Marks : 100

- Instructions :**
- 1) Use **blue/black** ball point pen only.
 - 2) **Do not** write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) **All** questions are **compulsory**.
 - 4) The number to the **right** indicates **full** marks.
 - 5) Draw diagrams **wherever** necessary.
 - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 - 7) Use a common answerbook for all sections.

1. Long answer question : (1×30=30)
 Discuss cardiac rehabilitation in patients with heart failure.
2. Long answer question : (1×30=30)
 Explain the rationale of early mobilization in the intensive care unit.
3. Short answer question (**any four** out of five) : (4×10=40)
 - a) Exercise prescription in hypertension.
 - b) Chest Physiotherapy in Intensive Care Unit.
 - c) Types of Maximal exercise tests.
 - d) Prone positioning in Acute respiratory distress syndrome.
 - e) Management of diabetic foot.



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1. Long answer question : (1×30=30)
Define Pulmonary rehabilitation. Discuss the various components of pulmonary rehabilitation with evidence support.
 2. Long answer question : (1×30=30)
What is exercise testing ? Discuss the indications, contra-indications, procedures and clinical application of 6-Minute Walk Test in respiratory disorders.
 3. Short answer question (**any four** out of five) : (4×10=40)
 - a) Importance of Prone positioning in acute respiratory distress syndrome.
 - b) Positive expiratory Pressure devices for airway clearance.
 - c) Tracheostomy care- Physiotherapeutic perspective.
 - d) Importance of Arterial Blood Gas Monitoring for management of mechanically ventilated patient.
 - e) Physical therapy interventions for management of neonates.
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1. Long answer question : **(1x30=30)**
Sheela is a 7 year old asthmatic child with frequent episodes of breathlessness. She need to take off from school due to this. She has working parents and stays with the babysitter after school hours. How would you plan an evidence based rehabilitation program for her ?
 2. Long answer question : **(1x30=30)**
Airway clearance techniques – an evidence based approach.
 3. Short answer question (**any four** out of five) : **(4x10=40)**
 - a) Role of,physiotherapist in weaning of a patient from mechanical ventilator.
 - b) Objective parameters of assessment in cardiopulmonary rehabilitation.
 - c) Energy conservation techniques in cardiopulmonary rehabilitation.
 - d) Pulmonary rehabilitation post pneumonectomy.
 - e) Supplemental oxygen therapy.
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1. Long answer question. (1×30=30)
Discuss physiotherapeutic assessment and management in neonatal and paediatric respiratory dysfunction.
2. Long answer question. (1×30=30)
Discuss evidence based management of respiratory dysfunctions in adult COPD patients.
3. Short answer question (**any four** out of five). (4×10=40)
 - a) Ergonomics and energy conservation in respiratory dysfunction.
 - b) Role of physiotherapist in emergency medical service.
 - c) Relevance of pharmacotherapeutics in Pulmonary Rehabilitation.
 - d) Importance of Pulmonary Function test in diagnosis and prognosis in Pulmonary impairments.
 - e) Supplemental oxygen therapy : indications, contraindications and precautions. Oxygen as an ergogenic aid in Pulmonary disability.



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1. Long answer question : (1×30=30)
Discuss physiotherapeutic approach in management of pleural disorders.
 2. Long answer question : (1×30=30)
Ergonomics for energy conservation in Geriatric Asthama patients.
 3. Short answer question (**any four** out of five) : (4×10=40)
 - a) Oxygen therapy its uses, methods of application and contraindications.
 - b) Discuss Dyspnea and its relieving strategies .
 - c) Complications following prolonged mechanical ventilation and role of Physiotherapist in timely weaning from the ventilator.
 - d) Airway clearance techniques.
 - e) Pharmacotherapeutics in COPD and its relevance with physiotherapy.
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1. Long answer question : (1×30=30)
Discuss Pulmonary Rehabilitation as a standard of care of chronic respiratory diseases-challenges and support.
2. Long answer question : (1×30=30)
Discuss neurotherapeutic approaches for managing a patient with restrictive Pulmonary diseases of neurological origin
3. Short answer question (**any four** out of five) : (4×10=40)
 - a) Energy conservation techniques for a patient with Bronchiectasis in respiratory failure.
 - b) Post operative care in patient with Lung volume reduction surgery of right upper lobe.
 - c) Weaning strategies.
 - d) Pulmonary function tests how useful are they for physiotherapist.
 - e) Role of diaphragm in breathing.