



57114

**M.P.Th. (Cardiovascular and Respiratory Physiotherapy) (2012)**  
**Examination, Winter 2018**  
**CARDIOVASCULAR AND RESPIRATORY PHYSIOTHERAPY**  
**(Part – II) – IV**

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)  
What is the rationale for planning exercise plan for a geriatric population with history of diabetes ?
  2. Long answer question : (1×30=30)  
Factors responsible for development of PVD in young population, methods of assessment and physiotherapy management for the same.
  3. Short answer question (**any four** out of five) : (4×10=40)
    - a) ECG: Interpretation and diagnosis.
    - b) Treadmill protocols.
    - c) Diagnostic tests for arterial disorders.
    - d) Recent trends in lymphoedema management.
    - e) Principles of managing acute respiratory distress syndrome in paediatric patients.
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7) **Use** a common answerbook for **all** sections.

1. Long answer question : (1×30=30)

Aerobic exercises and their rationale in patients with chronic arterial insufficiency. Explain the importance of monitoring in such patients.

2. Long answer question : (1×30=30)

Discuss with the help of evidences the assessment of a patient suffering from Peripheral Vascular disease.

3. Short answer question (**any four** out of five) : (4×10=40)

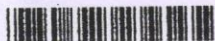
a) Lifestyle modifications in preventing coronary artery disease.

b) ABC of Cardiopulmonary Resuscitation.

c) ECG findings seen in a patient suffering from Rheumatic valvular heart disease.

d) Energy conservation techniques in a conservatively managed Inferior wall myocardial infarction patient.

e) Fitness training in a 20 years old boy operated for closure of ventricular septal defect 12 years back.



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1. Long answer question : (1×30=30)  
Write an essay on preventive cardiology and the role of Physiotherapist in promoting cardiac health.
2. Long answer question : (1×30=30)  
Write an essay on cardio respiratory fitness testing and training.
3. Short answer question (**any four** out of five) : (4×10=40)
  - a) Rehabilitation in peripheral arterial disease.
  - b) Respiratory care post cardiac surgery.
  - c) Precautions to be taken while giving Physiotherapy to Paediatric patient post cardiac surgery.
  - d) Investigations and its relevance in cardiac rehabilitation.
  - e) Causes for and management of Deep vein thrombosis.



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  - 7) **Use** a common answerbook for **all** Sections.

1. Long answer question : (1×30=30)  
Discuss the patho-physiology of coronary artery disease and peripheral arterial disease. Discuss with evidence if there is any relation between the two. Discuss the evidence based management of the two.
2. Long answer question : (1×30=30)  
Discuss the effect of aging on cardiac and vascular system, different outcome measures to assess them and comment about their sensitiveness to intervention giving appropriate examples.
3. Short answer question (**any four** out of five) : (4×10=40)
  - a) Write a note on the need for advocating Ergonomics and energy conservation and use of assistive devices to enhance function and performance in cardiovascular dysfunction giving examples.
  - b) Role of Physiotherapy in cardiac surgery ICU giving examples of different cardiac surgical conditions.
  - c) Explain the concept of Risk stratification and its application in cardiac rehabilitation.
  - d) Write a note on Cardiopulmonary and cerebral resuscitation. Who is eligible to do it? State the complications that can occur.
  - e) Write a note on lifestyle disorders and its primary and secondary prevention.



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  - 7) **Use** a common answerbook for **all** Section.

1. Long answer question : (1×30=30)  
Discuss Pharmaco-therapeutics in Cardiovascular conditions and its relevance with physiotherapy giving examples and recent evidence.
  2. Long answer question : (1×30=30)  
Evidence based practice in assessment and management of cardiac dysfunction.
  3. Short answer question (**any four** out of five) : (4×10=40)
    - a) Write a note on evidence based Vascular rehabilitation.
    - b) Principles of health and performance, Risk stratification and health promotion.
    - c) Write a note on cardio-Respiratory fitness testing.
    - d) Clinical decision-making skills in physiotherapeutic evaluation and management of Life style disorders.
    - e) Different ways of giving Oxygen therapy and its relevance to Physiotherapy.
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  - 7) **Use** a common answerbook for **all** sections.

- 1, Long answer question : (1×30=30)  
Discuss biomechanical changes in thoracic cage with aging.
  - 2, Long answer question : (1×30=30)  
Physiotherapy management in a mechanically ventilated patient.
  - 3, Short answer question (**any four** out of five) : (4×10 = 40)
    - a) Arterial Blood Gas Analysis.
    - b) Respiratory Muscle Training in COPD.
    - c) Autogenic Drainage.
    - d) Therapeutic body positioning to relieve breathlessness.
    - e) Types of humidifiers. Mention advantages and disadvantages of each.
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