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Total Number of Pages: (01)

Course: MPT

SUBJECT NAME: PT in speciality area (Cardio
Pulmonary Disorder)

SUB_CODE: 23MPT1C1

Q. CODE: A086

(1st Year MPT) Examination: 2023-24 (Admitted Batch)

Max Time: 3 Hours
80

Max Marks:

Sitting: 1st, 10.00 AM to 1.00 PM

Any Question having parts should be answered as whole at one place only.
Illustrate answer with diagrams wherever relevant / required if any)
The figures in the right-hand margin indicate marks.

Long Answer questions (any four out of six)

(4 x 15 Marks)

- Q 1
- What are acute and chronic effects of prolonged bed rest on respiratory system?
 - Discuss the indications, limitations and effects of resistance training and endurance training in obesity.
 - Enumerate various cardiac imaging techniques. Discuss indications, contraindications, techniques and limitations of any one of these.
 - Classify restrictive lung disease on the basis of etiology. Discuss pathophysiology of restrictive lung disease.
 - Describe various factors responsible for preload, contractility and afterload of heart.
 - What is atherosclerotic heart disease? What are the clinical conditions associated with it? Discuss pathophysiology of myocardial infarction.

Q 2 **Short answer questions (any five out of eight)**

(5 x 4 Marks)

- Lung compliance
- Pathomechanics of Tetralogy of Fallot
- Illustrated diagram of Normal electrocardiogram and its clinical implication.
- Classification of congenital heart diseases
- Alveolar gas equation and its clinical implication
- Oxygen cascade
- Effect of gravity on lungs' ventilation
- Effect of skin in thermal control of body.
