

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LQ 1120]

NOVEMBER 2020  
(MAY 2020 SESSION)

Sub. Code: 8183

**MPT DEGREE EXAMINATION**  
**SECOND YEAR – (From the A.Y. 2018-2019)**  
**BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY**  
**SPECIALITY PAPER II – PHYSIOTHERAPY INTERVENTIONS**  
*Q.P. Code : 278183*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss Exercise testing and training in Secondary Cardio Pulmonary Dysfunction.
2. Rehabilitation of Ventilator dependent patient.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Exercise prescription for Metabolic Syndrome.
2. Re-education of Diaphragm.
3. Autogenic drainage.
4. Post operative treatment for Pneumonectomy.
5. Aerosol therapy.
6. Facilitating accessory muscles in Ventilation.
7. Exercise training prescription.
8. Management of Lymphatic system dysfunction.
9. Effects of Anaerobic exercise.
10. Physiotherapy in complications of Cardiac surgeries.

\*\*\*\*\*

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MPT 0321]

MARCH 2021

Sub. Code: 8183

(OCTOBER 2020 EXAM SESSION)

**MPT DEGREE EXAMINATION**

**SECOND YEAR**

**BRANCH III – PHYSIOTHERAPY IN CARDIO - RESPIRATORY  
SPECIALITY PAPER II – PHYSIOTHERAPY INTERVENTIONS**

*Q.P. Code : 278183*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss the Physiotherapy management for Dyspnea.
2. Frame Cardiac Rehabilitation program for Coronary Artery Bypass Graft Surgery.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Relaxation techniques.
2. Procedure of suctioning
3. Physiotherapy for COVID 19
4. Oxygen therapy.
5. Autogenic drainage
6. Prevention of atelectasis
7. Infection control
8. Rotational beds.
9. Physiotherapy Management of Hypertension
10. Respiratory muscle strengthening exercise.

\*\*\*\*\*

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[MPT 0921]**

**SEPTEMBER 2021  
(MAY 2021 EXAM SESSION)**

**Sub. Code: 8183**

**MPT DEGREE EXAMINATION**

**SECOND YEAR - (Regulations for the candidates admitted from 2018-2019)**

**SPECIALITY PAPER II – PHYSIOTHERAPY INTERVENTIONS**

**BRANCH III – PHYSIOTHERAPY IN CARDIO - RESPIRATORY**

***Q.P. Code : 278183***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss the Physiotherapy management for Peripheral arterial diseases.
2. Frame Pulmonary rehabilitation program for Bronchial Asthma.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Continuous Positive Airway pressure.
2. Principles of Humidification.
3. Weaning from mechanical ventilator.
4. Assisted coughing techniques.
5. Breathing re-education.
6. Physiotherapy management after Pneumonectomy.
7. Principles of aerobic exercise.
8. Effects of Prone positioning.
9. Smoking cessation.
10. Chest physiotherapy for Paraplegic patient.

**\*\*\*\*\***

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[MPT 0222]

**FEBRUARY 2022  
(OCTOBER 2021 EXAM SESSION)**

**Sub. Code: 8183**

**MPT DEGREE EXAMINATION  
SECOND YEAR - (Regulations for the candidates admitted from 2018-2019)  
SPECIALITY PAPER II – PHYSIOTHERAPY INTERVENTIONS  
BRANCH III – PHYSIOTHERAPY IN CARDIO - RESPIRATORY  
*Q.P. Code : 278183***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe the evidence based practice in cardiac rehabilitation.
2. Discuss the complications that may arise in patient with penetrating Injury to chest. How will you manage such a patient.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Tracheostomy care.
2. Lifestyle modifications in coronary artery disease.
3. Burger Allen's Exercise.
4. Management of patient with atelectasis.
5. Diaphragmatic scoop technique.
6. Metabolic equivalent.
7. Heart disease classification with relevance to exercise tolerance.
8. Duke Activity Status Index.
9. Sustained maximal inspiration.
10. Specific considerations in giving chest physiotherapy to neonates.

\*\*\*\*\*

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[MPT 0223]**

**FEBRUARY 2023  
(OCTOBER 2022 EXAM SESSION)**

**Sub. Code: 8183**

**MPT DEGREE EXAMINATION  
SECOND YEAR - (Regulations for the candidates admitted from 2018-2019)  
SPECIALITY PAPER II – PHYSIOTHERAPY INTERVENTIONS  
BRANCH III – PHYSIOTHERAPY IN CARDIO – RESPIRATORY**

***Q.P. Code : 278183***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss the role of physiotherapist in occupational lung diseases.
2. Compare the usefulness of METS method of cardiac rehabilitation to standard techniques.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Ventilators.
2. PNF for improving breathing.
3. Treatment for hyperventilation syndrome.
4. Cardiopulmonary resuscitation.
5. Management of dyspnea.
6. Physiotherapy in chest wall deformity.
7. Discuss Nebulization.
8. Lung expansion therapies.
9. Energy conservation techniques.
10. Autogenic drainage.

**\*\*\*\*\***

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[MPT 0523]**

**MAY 2023**

**Sub. Code: 8183**

**MPT DEGREE EXAMINATION**

**SECOND YEAR - (Regulations for the candidates admitted from the academic year 2018-2019)  
SPECIALITY PAPER II – PHYSIOTHERAPY INTERVENTIONS  
BRANCH III – PHYSIOTHERAPY IN CARDIO – RESPIRATORY**

*Q.P. Code: 278183*

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain in detail advanced airway clearance techniques.
2. Evidence based practice in Pulmonary Rehabilitation.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Acapella.
2. MET uses in cardio-pulmonary rehabilitation.
3. Manual hyper inflation.
4. Types of humidifier.
5. Neonatal ICU.
6. Resting respiratory level.
7. CPR.
8. Forced expiratory technique.
9. Cuirass ventilator.
10. Postural drainage.

\*\*\*\*\*

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[MPT 1223]

**DECEMBER 2023  
(OCTOBER 2023 EXAM SESSION)**

**Sub. Code: 8183**

**MPT DEGREE EXAMINATION**

**SECOND YEAR - (Regulations for the candidates admitted from the academic year 2018-2019)  
SPECIALITY PAPER II – PHYSIOTHERAPY INTERVENTIONS  
BRANCH III – PHYSIOTHERAPY IN CARDIO – RESPIRATORY**

*Q.P. Code: 278183*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write in detail about respiratory muscle training strategies for COPD Patients.
2. Discuss cardiac rehabilitation in patients with Heart failure.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Explain the importance of Holter monitor for physiotherapy.
2. What are the criteria for mobilization of patients in critical care unit?
3. Risk factors for Peripheral vascular disease and its prevention measures.
4. Management of post operative pulmonary complications in thoracic surgeries.
5. Respiratory acidosis.
6. Stress testing.
7. Suctioning.
8. Role of incentive spirometer in lung collapse.
9. Clinical application of Active cycle of breathing.
10. Compare breathing exercise with yogic technique.

\*\*\*\*\*

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[MPT 0524]**

**MAY 2024**

**Sub. Code: 8183**

**MPT DEGREE EXAMINATION**

**SECOND YEAR - (Regulations for the candidates admitted from the academic year 2018-2019)  
SPECIALITY PAPER II – PHYSIOTHERAPY INTERVENTIONS  
BRANCH III – PHYSIOTHERAPY IN CARDIO – RESPIRATORY**

*Q.P. Code: 278183*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Cardiac de-conditioning and conditioning.
2. What are the various cardiac and pulmonary factors limiting Exercise capability?

**II. Write notes on:**

**(10 x 6 = 60)**

1. Different rehabilitation protocols for myocardial infarction.
2. Resistance training in cardio pulmonary disorders.
3. Breathing exercise technique in various positions.
4. Broncho pleural fistula.
5. Bagging.
6. Oxygen toxicity.
7. Arterial blood gas analysis.
8. Effects of positioning and mobilization in oxygen transport.
9. Assisted coughing technique.
10. Physiotherapy in congenital heart diseases.

\*\*\*\*\*

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[MPT 1024]

**OCTOBER 2024**

**Sub. Code: 8183**

**MPT DEGREE EXAMINATION**

**SECOND YEAR - (Regulations for the candidates admitted from the academic year 2018-2019)**

**SPECIALITY PAPER II – PHYSIOTHERAPY INTERVENTIONS**

**BRANCH III – PHYSIOTHERAPY IN CARDIO – RESPIRATORY**

*Q.P. Code: 278183*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Principles of Exercise prescription for Myocardial Infarction Patient.
2. Discuss in detail about patient with Lung Transplantation.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Acapella.
2. Importance of assisted coughing technique.
3. Occupational lung disease.
4. Cardiac Rehabilitation.
5. Suction.
6. Tracheostomy care.
7. Positive Airway Pressure therapy.
8. Physical therapy technique to improve lung ventilation.
9. Ventilator.
10. Artificial Airway.

\*\*\*\*\*

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[MPT 0525]**

**MAY 2025**

**Sub. Code: 8183**

**MPT DEGREE EXAMINATION  
SECOND YEAR - (Candidates admitted 2018-2019 onwards)  
SPECIALITY PAPER II – PHYSIOTHERAPY INTERVENTIONS  
BRANCH III – PHYSIOTHERAPY IN CARDIO – RESPIRATORY**

*Q.P. Code: 278183*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Role of Physiotherapist in Intensive Cardiac Care Unit.
2. Discuss the pre and post operative assessment and management for VSD patients.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Effects of inspiratory hold exercise.
2. Importance of lymphatic system.
3. Contraindication to exercise testing.
4. Adult respiratory distress syndrome.
5. Biomechanics of respiration and its application in respiratory physiotherapy.
6. Various outcome measures used in respiratory disorders.
7. Middle lobe syndrome.
8. Vo<sub>2</sub> max.
9. Factors determining blood pressure.
10. Flutter.

\*\*\*\*\*

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[MPT 1025]**

**OCTOBER 2025**

**Sub. Code: 8183**

**MPT DEGREE EXAMINATION  
SECOND YEAR - (Candidates admitted 2018-2019 onwards)  
SPECIALITY PAPER II – PHYSIOTHERAPY INTERVENTIONS  
BRANCH III – PHYSIOTHERAPY IN CARDIO – RESPIRATORY**

*Q.P. Code: 278183*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. What are all the general principles of exercise training and prescription? How will you prescribe exercise for Asthma patient?
2. Give a detailed account on pulmonary rehabilitation of the patient with right Side pneumonectomy.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Basics of normal ECG.
2. ABG analysis.
3. Six minute walk test.
4. Intermittent claudication.
5. Modes of ventilators.
6. Autogenic drainage.
7. Subcutaneous emphysema.
8. Aerosol therapy.
9. Mediate percussion.
10. Burger exercises.

\*\*\*\*\*