

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION
SECOND YEAR**

BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY

PAPER I – PHYSIOTHERAPY ASSESSMENT

(SPECIALITY – I)

Q.P. Code: 278123

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|----|---------|----|
| 1. Describe the development, components, coding and benefits International Classification of Functioning?
Add note on ICF application area? | 17 | 40 min. | 20 |
| 2. Define immobilization? Describe the various body position and its effect on cardio respiratory system? | 17 | 40 min. | 20 |

II. Write notes on :

- | | | | |
|---|---|---------|---|
| 1. Movement dysfunction. | 4 | 10 min. | 6 |
| 2. Hyperventilation syndrome. | 4 | 10 min. | 6 |
| 3. Examination of workplace. | 4 | 10 min. | 6 |
| 4. Children with respiratory dysfunction. | 4 | 10 min. | 6 |
| 5. NAGI model. | 4 | 10 min. | 6 |
| 6. Post traumatic stress disorder. | 4 | 10 min. | 6 |
| 7. Code of ethics for physical therapist. | 4 | 10 min. | 6 |
| 8. Pectus excavatum. | 4 | 10 min. | 6 |
| 9. Respiratory defense mechanism. | 4 | 10 min. | 6 |
| 10. Marfan's syndrome. | 4 | 10 min. | 6 |

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION
SECOND YEAR**

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PAPER I – PHYSIOTHERAPY ASSESSMENT

(SPECIALITY – I)

Q.P. Code: 278123

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages (Max.)	Time (Max.)	Marks (Max.)
-----------------	----------------	-----------------

- | | | | |
|--|----|---------|----|
| 1. Age related changes in cardiovascular and pulmonary system. | 17 | 40 min. | 20 |
| 2. Breathing mechanism in normal and diseased. | 17 | 40 min. | 20 |

II. Write Notes on :

- | | | | |
|--|---|---------|---|
| 1. Preferred practice patterns. | 4 | 10 min. | 6 |
| 2. Respiratory muscle strength assessment. | 4 | 10 min. | 6 |
| 3. Cystic fibrosis. | 4 | 10 min. | 6 |
| 4. Traumatic pneumothorax. | 4 | 10 min. | 6 |
| 5. Development of Heart. | 4 | 10 min. | 6 |
| 6. Myocarditis. | 4 | 10 min. | 6 |
| 7. Deep vein thrombosis. | 4 | 10 min. | 6 |
| 8. Postural hypotension. | 4 | 10 min. | 6 |
| 9. Microcirculation. | 4 | 10 min. | 6 |
| 10. Exercise stress testing. | 4 | 10 min. | 6 |

[LC 123]

APRIL 2013

Sub. Code: 8123

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION
SECOND YEAR**

BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY

PAPER I – PHYSIOTHERAPY ASSESSMENT

(SPECIALITY – I)

Q.P. Code: 278123

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Breathing mechanism in normal and diseased.
2. Physiotherapeutic and functional assessment of cardiovascular and pulmonary system.

II. Write notes on:

(10 x 6 = 60)

1. Lung sounds.
2. Microcirculation.
3. Anxiety.
4. International classification of functioning.
5. Conduction system of heart.
6. Pentalogy of fallot.
7. Chest imaging.
8. Sleep apnea.
9. Postural hypotension.
10. Pulmonary function test.

[LD 123]

OCTOBER 2013

Sub. Code: 8123

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION
SECOND YEAR**

BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY

PAPER I – PHYSIOTHERAPY ASSESSMENT

(SPECIALITY – I)

Q.P. Code: 278123

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Pulmonary function testing.
2. Age related changes in cardiovascular and pulmonary system.

II. Write notes on:

(10 x 6 = 60)

1. Development of heart.
2. Hyper ventilation syndrome.
3. Preferred practice patterns.
4. Myocarditis.
5. Atrial myxoma.
6. Respiratory muscle fatigue.
7. Code of ethics.
8. Adult respiratory distress syndrome.
9. Cyanosis.
10. Electrocardiogram.

[LE 123]

APRIL 2014

Sub. Code: 8123

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION
SECOND YEAR**

BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY

PAPER I – PHYSIOTHERAPY ASSESSMENT

(SPECIALITY – I)

Q.P. Code: 278123

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Describe the types, clinical features, diagnosis and treatment of lung cancer?
2. Examination of Functional Status and Activity Level?

II. Write notes on:

(10 x 6 = 60)

1. Buerger's Disease.
2. Wellness in rehabilitation.
3. Adaptive Equipment.
4. Abnormal Cardiovascular response to exercise.
5. Physiology of Edema.
6. Sniff test.
7. Factors affecting Oxygen dissociation Curve.
8. Purpose and need for Physiotherapy assessment.
9. Cheyne-Stokes breathing.
10. Components of the ICF.

[LF 123]

OCTOBER 2014

Sub. Code: 8123

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION
SECOND YEAR**

BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY

PAPER I – PHYSIOTHERAPY ASSESSMENT

(SPECIALITY – I)

Q.P. Code: 278123

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Give a detailed account on examination of environment.
2. Write in detail about the development of cardiovascular system and add a note on deviations from normal development.

II. Write notes on:

(10 x 6 = 60)

1. Microcirculation.
2. Sleep apnoea.
3. Silhouette sign.
4. Oxygen transport pathway.
5. Coronary angiography.
6. NAGI model.
7. Pulmonary hypertension.
8. Define atelectasis and discuss possible causes.
9. Collateral ventilation channels.
10. Dead space and its significance in physiotherapy.

[LG 123]

APRIL 2015

Sub. Code: 8123

**MASTER OF PHYSIOTHERAPY (MPT) DEGREE EXAMINATION
SECOND YEAR**

BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY

PAPER I – PHYSIOTHERAPY ASSESSMENT

(SPECIALITY – I)

Q.P. Code: 278123

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Changes in Cardiovascular and Pulmonary System with age.
2. Define chronic bronchitis, describe aetiology, clinical features, diagnosis and detailed management of chronic bronchitis.

II. Write notes on:

(10 x 6 = 60)

1. Oedema.
2. Ergometry.
3. Purpose and need of physiotherapy assessment.
4. Hypersexuality.
5. NAGI model.
6. Code of ethics for physiotherapy by APTA.
7. Examination of workplace.
8. Principles of evidence based physiotherapy practice.
9. Respiratory defense mechanism.
10. Anxiety.

[LH 123]

OCTOBER 2015

Sub. Code: 8123

**MPT DEGREE EXAMINATION
SECOND YEAR
SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT
BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY**

Q.P. Code : 278123

Time : Three hours

Maximum : 100 marks

I. Elaborate on: **(2 x 20 = 40)**

1. Enumerate in detail about the enablement and disablement models of physiotherapy research and practice.
2. Respiratory muscle physiology, fatigue and training.

II. Write notes on: **(10 x 6 = 60)**

1. Difference between respiratory system of adult and children.
2. Cardiac catheterization
3. Dressler's syndrome
4. Anxiety disorders
5. Paediatric respiratory assessment
6. Normal and abnormal breath sounds
7. Thromboangitis obliterans
8. Paradoxical breathing
9. Deviation from normal development of cardiovascular system
10. Guidelines for documentation of patient record

[LI 123]

APRIL 2016

Sub. Code: 8123

**MPT DEGREE EXAMINATION
SECOND YEAR
SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT
BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY**

Q.P. Code : 278123

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Write in detail about the normal and abnormal responses of Cardiac and Pulmonary system during exercise.
2. Elaborate on the basic principles and concepts of respiratory and Cardiovascular Stress testing.

II. Write notes on:

(10 x 6 = 60)

1. Clubbing.
2. Whispering Pectoriloquy.
3. Arterial blood gas analysis.
4. Radiological signs of lung consolidation.
5. Pulmonary embolism.
6. Flow-volume curve.
7. Assistive technology.
8. Role of Cholesterol as a Cardiovascular risk factor.
9. Personality and coping styles.
10. Levels of evidence-based physiotherapy practice.

[LJ 123]

OCTOBER 2016

Sub. Code: 8123

**MPT DEGREE EXAMINATION
SECOND YEAR
SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT
BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY**

Q.P. Code : 278123

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss in detail about the embryological development of the Heart and congenital developmental problem.
2. Discuss in detail about the circulation and its importance during exercises. Add a note on Edema, and its reference to cardiac problem.

II. Write notes on:

(10 x 6 = 60)

1. Code of ethics for physiotherapist.
2. Pectus carinatum.
3. Lung carcinoma.
4. Compensation in acid base disorders.
5. Radiological findings in Pneumonia.
6. Obstructive sleep apnea.
7. Principles of stress testing.
8. Assessment of diaphragm strength and excursion.
9. Lung sounds.
10. Quality of life questionnaires and its reliability.

[LK 123]

MAY 2017

Sub. Code: 8123

**MPT DEGREE EXAMINATION
SECOND YEAR
SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT
BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY**

Q.P. Code : 278123

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss in detail about the principles of subjective and objective assessment for a 55 year old male admitted in intensive care unit for respiratory failure complaint.
2. Discuss in detail about the Arterial blood gas analysis and its interpretation, and principle of exercise prescription.

II. Write notes on:

(10 x 6 = 60)

1. Importance of chest X-ray in physiotherapy practice.
2. Cardiac catheterization.
3. Abnormal breathing pattern.
4. Assessment of venous disorders.
5. Role of physiotherapist in coronary care unit.
6. 12 minute walk test and its reliability.
7. Abnormal cardiovascular response to exercise.
8. Adult respiratory distress syndrome.
9. Fitness evaluation.
10. Possible causes of atelectasis.

[LL 123]

OCTOBER 2017

Sub. Code: 8123

**MPT DEGREE EXAMINATION
SECOND YEAR
SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT
BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY**

Q.P. Code : 278123

Time : Three hours

Maximum : 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Discuss in detail about the principles of Pulmonary function testing and add a note on importance of Pulmonary function testing in diagnosis.
2. Discuss in detail about the functional assessment of Cardiovascular and pulmonary system.

II. Write notes on: **(10 x 6 = 60)**

1. Cyanosis and clubbing.
2. Kypho-scoliosis.
3. Barrel chest.
4. Added sounds.
5. Interpretation of ECG.
6. Hyperventilation syndrome.
7. Exercise tolerance tests.
8. Importance of Coronary angiogram.
9. Low level stress testing.
10. Components of ICF.

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

[LM 123]

MAY 2018

Sub. Code: 8123

MPT DEGREE EXAMINATION

SECOND YEAR

SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT

BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY

Q.P. Code : 278123

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Various body positioning and its effect on Cardio respiratory system.
2. Breathing mechanism in normal and diseased and its relevance in assessment of Pulmonary patients.

II. Write notes on:

(10 x 6 = 60)

1. Vital sign and its importance.
2. Exercise stress testing.
3. Respiratory muscle strength assessment.
4. Tension pneumothorax.
5. Postural hypotension.
6. Chest imaging.
7. Electrocardiogram.
8. Cyanosis.
9. Oedema.
10. Adaptive equipment.

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

[LN 123]

OCTOBER 2018

Sub. Code: 8123

MPT DEGREE EXAMINATION

SECOND YEAR

SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT

BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY

Q.P. Code : 278123

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Higher centres of respiration, and its regulation of respiration.
2. Physiotherapeutic and functional assessment of cardiovascular and pulmonary system.

II. Write notes on:

(10 x 6 = 60)

1. Silhouette sign.
2. Oxygen transport pathway.
3. Atelectasis.
4. Ergonomic principles for respiratory patient.
5. Oedema.
6. Principles of evidence based physiotherapy practice in cardio pulmonary physiotherapy.
7. Sleep apnea.
8. Dead space.
9. Pulmonary hypertension.
10. Post traumatic stress disorder.

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

[LO 123]

MAY 2019

Sub. Code: 8123

MPT DEGREE EXAMINATION

SECOND YEAR

BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY

SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT

Q.P. Code : 278123

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss in detail about the clinical features, complications of myocardial infarction and add a note on physiotherapy assessment for a 45 year old male admitted in coronary care unit for myocardial infarction.
2. Discuss in detail about the half-lying, prone lying, supine lying positions and its impact on systemic changes.

II. Write notes on:

(10 x 6 = 60)

1. Assessment of chest wall expansion.
2. Microcirculation.
3. Chest trauma.
4. NAGI model.
5. Interpretation of arterial blood gas analysis.
6. Role of physiotherapist in transplant unit.
7. Shuttle walking test.
8. Ventilator patient assessment.
9. Appraising the evidence.
10. Common defense reactions to disability.

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

[LP 123]

OCTOBER 2019

Sub. Code: 8123

MPT DEGREE EXAMINATION

SECOND YEAR

BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY

SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT

Q.P. Code : 278123

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Pulmonary function testing, interpretation and its need in pulmonary assessment.
2. Age related changes in Cardio vascular and pulmonary system and its importance in assessment and treatment plan in cardio respiratory physiotherapy.

II. Write notes on:

(10 x 6 = 60)

1. Cardinal symptom and sign of cardio respiratory diseases.
2. Cheyne-stokes breathing.
3. Functional assessment in Cardio-pulmonary Rehabilitation.
4. Hyperventilation syndrome.
5. Deep vein thrombosis.
6. Development of heart.
7. Collateral channels.
8. Tetralogy of Fallot.
9. Anxiety.
10. Lung sounds.

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

[LQ 123]

**NOVEMBER 2020
(MAY 2020 SESSION)**

Sub. Code: 8123

**MPT DEGREE EXAMINATION
SECOND YEAR
BRANCH III – PHYSIOTHERAPY IN CARDIO RESPIRATORY
SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT**

Q.P. Code : 278123

Time : Three hours

Maximum : 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Discuss in detail about Respiratory muscle physiology, fatigue and training and its interpretation, and principles of physiotherapy assessment of respiratory muscle strength.
2. Define Restrictive lung disease and list out intra & extra-pulmonary causes with physiotherapy assessment.

II. Write notes on: **(10 x 6 = 60)**

1. Importance of chest X-ray in physiotherapy practice.
2. Sleep apnoea.
3. Fitness and its significance.
4. Cardiac catheterization.
5. Importance of physiotherapy assessment.
6. Abnormal response in cardiovascular system during exercise.
7. Coronary angiography.
8. Assessment for varicose vein.
9. Paradoxical breathing pattern.
10. Ergometry.

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

[MPT 0321]

MARCH 2021

Sub. Code: 8123

(OCTOBER 2020 EXAM SESSION)

MPT DEGREE EXAMINATION

SECOND YEAR

BRANCH III – PHYSIOTHERAPY IN CARDIO - RESPIRATORY

SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT

Q.P. Code : 278123

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss in detail about the embryological development of the heart and add a note deviation from the normal development.
2. Elaborate on the basic principles and concepts of Exercise Stress Testing. Add a note on the components of Exercise Prescription.

II. Write notes on:

(10 x 6 = 60)

1. Post Traumatic Stress Disorder.
2. Pulmonary Function Testing.
3. Documenting the Plan of Care.
4. Preferred Practice Patterns in CVS.
5. Hyperventilation Syndrome.
6. ABG analysis & its interpretation.
7. Peripheral Vascular Diseases.
8. Lung Carcinoma.
9. Microcirculation and Oedema.
10. Acute Respiratory Distress Syndrome.

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

[MPT 0921]

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

Sub. Code: 8123

MPT DEGREE EXAMINATION

SECOND YEAR - (Regulations for the candidates admitted on or before the A.Y.2017-2018)

SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT

BRANCH III – PHYSIOTHERAPY IN CARDIO - RESPIRATORY

Q.P. Code : 278123

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define Bronchial Asthma. Write in detail about its aetiology, clinical features, diagnosis and its management.
2. Define immobilization. Explain the adverse effects of prolonged immobilization on Cardio respiratory system.

II. Write notes on:

(10 x 6 = 60)

1. Traumatic Pneumothorax.
2. Orthostatic Hypertension.
3. Valvular incompetence.
4. Assessment of Respiratory muscle strength.
5. Examination of workplace.
6. Cyanosis and Clubbing.
7. Pectus Excavatum.
8. Deep Vein Thrombosis.
9. Dead Space and its significance in Physiotherapy.
10. Pediatric Respiratory Assessment.

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

[MPT 0222]

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

Sub. Code: 8123

MPT DEGREE EXAMINATION

SECOND YEAR - (Regulations for the candidates admitted on or before the A.Y.2017-2018)

SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT

BRANCH III – PHYSIOTHERAPY IN CARDIO - RESPIRATORY

Q.P. Code : 278123

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Write in detail about the normal and abnormal responses of cardiac and pulmonary system during exercise.
2. Various body positioning and its effect on cardio respiratory system.

II. Write notes on:

(10 x 6 = 60)

1. Low level stress testing.
2. Exercise tolerance tests.
3. Barrel chest.
4. Hyperventilation syndrome.
5. Cardiac catheterization.
6. Atelectasis.
7. Abnormal cardiovascular responses to exercises.
8. Lung sounds.
9. Lung carcinoma.
10. Dyspnea.

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

[MPT 0622]

**JUNE 2022
(MAY 2022 EXAM SESSION)**

Sub. Code: 8123

MPT DEGREE EXAMINATION

SECOND YEAR - (Regulations for the candidates admitted on or before the A.Y.2017-2018)

SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT

BRANCH III – PHYSIOTHERAPY IN CARDIO – RESPIRATORY

Q.P. Code : 278123

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain in detail factors responsible for development of peripheral vascular diseases and methods of the assessment for the same.
2. Explain in detail influence of values and patient care for physiotherapy assessment.

II. Write notes on:

(10 x 6 = 60)

1. Principles of evidence-based practice.
2. ICF.
3. Patient- home environment relationship.
4. Documentation.
5. Chyne stock breathing.
6. Radiological investigation bronchiectasis.
7. Cardiac enzymes.
8. Alkalosis-acidosis.
9. Coronary angiography.
10. Murmurs of the heart.

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

[MPT 0223]

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

Sub. Code: 8123

MPT DEGREE EXAMINATION

SECOND YEAR - (Regulations for the candidates admitted on or before the A.Y.2017-2018)

SPECIALITY PAPER I – PHYSIOTHERAPY ASSESSMENT

BRANCH III – PHYSIOTHERAPY IN CARDIO – RESPIRATORY

Q.P. Code : 278123

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Changes in Cardiovascular and Pulmonary System with age.
2. Breathing mechanism in normal and diseased and its relevance in assessment of Pulmonary patients.

II. Write notes on:

(10 x 6 = 60)

1. Oedema.
2. Kypho-scoliosis.
3. Chest imaging.
4. Possible causes of atelectasis.
5. Clubbing.
6. Anxiety disorders.
7. Pulmonary hypertension.
8. Buerger's Disease.
9. Development of heart.
10. Pentalogy of Fallot.
