

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

[MD 0524]

MAY 2024

Sub. Code: 4045

M.D. DEGREE EXAMINATION

BRANCH XVII – RESPIRATORY MEDICINE

PAPER I – GENERAL PULMONARY MEDICINE AND BASIC SCIENCES

Q.P. Code: 204045

Time: Three Hours

Maximum: 100 Marks

Write notes on:

I. ANATOMY: (4 x 5 = 20)

1. Cilia.
2. Diaphragm.
3. Lymphatic Drainage of Lung.
4. Airway Branching.

II. PHYSIOLOGY: (4 x 5 = 20)

1. High Altitude Acclimatization.
2. Bohr Effect.
3. Caission's disease.
4. Flow Volume Loops.

III. BIOCHEMISTRY: (3 x 5 = 15)

1. Respiratory Acidosis.
2. Procalcitonin.
3. Alpha-1 Anti Typsin.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Bedaquiline.
2. Heparin.
3. Amphotericin.

V. PATHOLOGY: (3 x 5 = 15)

1. Cryptogenic Organising Pneumonia.
2. Immuno Histochemistry Markers.
3. Ghon's Focus.

VI. MICROBIOLOGY: (3 x 5 = 15)

1. H3N2.
2. Mucormycosis.
3. WGS (Whole Genome Sequencing).

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

[MD 1224]

**DECEMBER 2024
(OCTOBER 2024 EXAM SESSION)**

Sub. Code: 4045

M.D. DEGREE EXAMINATION

RESPIRATORY MEDICINE

PAPER I – GENERAL PULMONARY MEDICINE AND BASIC SCIENCES

Q.P. Code: 204045

Time: Three Hours

Maximum: 100 Marks

Write notes on:

I. ANATOMY: (4 x 5 = 20)

1. Superior Mediastinum and Applied Anatomy.
2. Bronchial artery and Clinical application.
3. Mediastinal lymph node stations.
4. Bronchoscopic anatomy of airways.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Haldane effect.
2. Stages of Sleep.
3. Physiology of NIV.
4. Forced oscillation techniques.

III. BIOCHEMISTRY: (3 x 5 = 15)

1. Anion gap.
2. CFTR mutations.
3. Galactomannan.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Dupilumab.
2. Crizotinib.
3. Pharmacovigilance.

V. PATHOLOGY: (3 x 5 = 15)

1. Carcinoid tumours.
2. Granulomatosis with polyangiitis.
3. Molecular endotypes in asthma.

VI. MICROBIOLOGY: (3 x 5 = 15)

1. Acinetobacter Baumannii.
2. Severe combined immunodeficiency.
3. National standards for minimum ventilation in Health-Care Settings.

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

[MD 1025]

OCTOBER 2025

Sub. Code: 4045

M.D. DEGREE EXAMINATION

RESPIRATORY MEDICINE

PAPER I – GENERAL PULMONARY MEDICINE AND BASIC SCIENCES

Q.P. Code: 204045

Time: Three Hours

Maximum: 100 Marks

Write notes on:

I. ANATOMY: (4 x 5 = 20)

1. Bronchopulmonary segment.
2. Cardiac bronchus.
3. Developmental anomalies of diaphragm.
4. Lymphatic drainage of lung.

II. PHYSIOLOGY: (4 x 5 = 20)

1. Closing volume.
2. Pulmonary vascular resistance.
3. Oxygen dissociation curve.
4. Alveolar macrophages.

III. BIOCHEMISTRY: (3 x 5 = 15)

1. Role of lung in Acid base Homeostasis.
2. Interferon Gamma Release Assay.
3. Oxygen Toxicity.

IV. PHARMACOLOGY: (3 x 5 = 15)

1. Pretomanid.
2. Rifabutin.
3. E- Cigarette or vaping product induced lung injury (EVALI).

V. PATHOLOGY: (3 x 5 = 15)

1. Necrobiotic nodule.
2. Morphology of emphysema.
3. Pathogenesis of lymphangioleiomyomatosis.

VI. MICROBIOLOGY: (3 x 5 = 15)

1. Pulmonary Actinomycosis.
2. Microbiology of parapneumonic effusion.
3. Streptococcus pneumonia.
