

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

[MD 1022]

OCTOBER 2022

Sub. Code: 2065

M.D. DEGREE EXAMINATION  
BRANCH XVII – TUBERCULOSIS AND RESPIRATORY MEDICINE  
PAPER I – APPLIED BASIC SCIENCES IN TUBERCULOSIS AND  
RESPIRATORY DISEASES

*Q.P. Code: 202065*

**Time: Three Hours**

**Maximum: 100 Marks**

**Write notes on:**

**I. ANATOMY: (4 x 5 = 20)**

1. Airways Generations.
2. Anatomy of SVC.
3. Mediastinal Lymph node Stations.
4. Intercostal muscles.

**II. PHYSIOLOGY: (4 x 5 = 20)**

1. High Altitude Pulmonary Adaptations.
2. DLCO.
3. Physiological functions of the surfactant.
4. Oxygen dissociation curve.

**III. BIOCHEMISTRY: (3 x 5 = 15)**

1. Anion Gap
2. Anti oxidants.
3. LDH.

**IV. PHARMACOLOGY: (3 x 5 = 15)**

1. Pretomanid.
2. Gemcitabine.
3. Pembrolizumab.

**V. PATHOLOGY: (3 x 5 = 15)**

1. Masson body.
2. Pathology of COVID19 Pneumonia.
3. Oesophageal duplication cyst.

**VI. MICROBIOLOGY: (3 x 5 = 15)**

1. Fall and Rise phenomena.
2. MGIT – Liquid culture system for AFB.
3. LATENT TB – diagnostic tools.

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