

Doctor of Medicine Examination August - 2026

M.D. Respiratory Medicine (Paper - I)

Time: 3 Hours]

[Total Marks: 100

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book

Seat No.:

Student's Signature

- Q.1.** Explain acid-base regulation by the respiratory system. Describe the compensatory mechanisms in respiratory acidosis and alkalosis. (20)
- Q.2.** Define various drug resistance in TB. Discuss etiopathogenesis and NTEP guidelines of DR TB management including pretreatment evaluation. (20)
- Q.3.** Discuss pleural fluid mechanics and normal cellular composition. Describe diagnostic approach to haemorrhagic pleural effusion. (20)
- Q.4.** Describe the lymphatic drainage of the Lung. Explain its utility in pulmonary practice and imaging techniques. (20)
- Q.5.** **Write Short Notes: (5 Marks Each)** (20)
1. Physiology of the lung in pregnancy
 2. Impulse Oscillometry technique
 3. Alveolar macrophage
 4. Surfactant

RAN-2406121501010502
Doctor of Medicine Examination August - 2026
Clinical Pulmonary Medicine Including Medical Emergencies
(Respiratory Medicine) (Paper - II)
Time: 3 Hours]
[Total Marks: 100

સૂચના : / Instructions (1) ઉપરોક્ત દશવિધ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book	Seat No.: Student's Signature
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- Q.1.** Discuss the various effects of indoor and outdoor air pollution on respiratory system . (20)
- Q.2.** Discuss the differential diagnosis, investigation and management of solitary pulmonary nodule seen in CXR of a patient aged 60 years. (20)
- Q.3.** Define Precision medicine in COPD. Discuss endotypes and phenotypes of COPD and its role in management. (20)
- Q.4.** What are the differential diagnosis of miliary nodules on CXR. Describe etiopathogenesis, clinical features, diagnosis and management of coal workers pneumoconiosis. (20)
- Q.5. Write Short Notes: (5 Marks Each)** (20)
1. Radiologic patterns in Interstitial lung disease
 2. High altitude pulmonary diseases
 3. Oxygen toxicity.
 4. Antipseudomonal antibiotic therapy in Bronchiectasis.

RAN-2406121501010503

Doctor Of Medicine Examination August - 2026
Clinical Pulmonary Medicine Including Critical Care Medicine
Respiratory Medicine (Paper - III)

Time: 3 Hours]
[Total Marks: 100

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book	Seat No.: Student's Signature
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- Q.1.** Discuss the various respiratory manifestations of systemic lupus erythematosus (SLE) and describe their management. (20)
- Q.2.** Discuss the respiratory complications in the immunocompromised host, highlighting diagnostic approach and management strategies. (20)
- Q.3.** Define Pulmonary Hypertension and write current WHO classification of pulmonary Hypertension. Describe pathophysiology, clinical manifestations, and management of PH. (20)
- Q.4.** Describe pathophysiology of hypercapnoic respiratory failure and its management in IRCU. (20)
- Q.5.** **Write Short Notes: (5 Marks Each)** (20)
1. Tension pneumothorax
 2. Hemoptysis
 3. Risk stratification and management in pulmonary embolism
 4. Aspiration pneumonia

RAN-2406121501010504
Doctor of Medicine (respiratory medicine) Examination August - 2026
Recent advances in pulmonary medicine and research methodology - Paper-IV
Time: 3 Hours]
[Total Marks: 100

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book	Seat No.: Student's Signature
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- Q.1.** Discuss recent advances in Bronchoscopic technique. Describe the principles, indications, advantages, limitations, & complications of EBUS. 20
- Q.2.** Describe the recent advances in drug-resistant tuberculosis covering newer anti TB drugs, rapid molecular diagnostics, & host directed therapies. 20
- Q.3.** Discuss the approach to diagnosis, TNM staging, & multidisciplinary management of NSCLC. 20
- Q.4.** Define pleurodesis. Describe its indication, contraindications, various methods, sclerosing agents & complications. 20
- Q.5.** **Write Short Notes: (5 Marks Each)** 20
1. Central sleep apnoea.
 2. Liquid biopsy.
 3. POCUS.
 4. Principles of formulating good research question