

MANIPAL ACADEMY OF HIGHER EDUCATION
MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – APRIL 2022
PAPER I

Friday, April 01, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL questions.**
- ✍ **Your answers should be specific to the questions asked.**
- ✍ **Draw neat, labelled diagrams wherever necessary.**

✍ **Long Essay:**

1. Write a brief note on the embryology of esophagus and trachea, the types of tracheo-esophageal fistula, clinical features and management.
(15 marks)

2. Describe the physiology of pleural fluid formation and pathogenesis of pleural effusion.
(15 marks)

3. **Short Essay:**

- 3A. Respiratory Acidosis
- 3B. Dead space
- 3C. Blood gas transport in lung parenchyma
- 3D. Pulmonary circulation and its functions
- 3E. Airway resistance
- 3F. Tocilizumab
- 3G. Pulse oximetry
- 3H. Nebulization therapy
- 3I. Six-minute walk test
- 3J. Scimitar syndrome

(7 marks × 10 = 70 marks)



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PAPER II

Saturday, April 02, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

✍ Your answers should be specific to the questions asked.

✍ Draw neat labelled diagrams wherever necessary.

✍ **Long Essay:**

1. Discuss the etiology, classification, clinical features and management of parapneumonic effusion.

(15 marks)

2. Discuss the clinical features, diagnosis and treatment of Pulmonary Hydatid Disease.

(15 marks)

3. **Short Essay:**

3A. Management of difficult to control Asthma

3B. Non Specific Interstitial Pneumonia

3C. Newer antifungal agents

3D. Long term oxygen therapy

3E. Hypereosinophilic syndrome.

3F. Extra pulmonary manifestation of COPD

3G. Silico tuberculosis.

3H. NIV- uses, complications.

3I. Klebsiella Pneumonia

3J. Cystic Fibrosis

(7 marks × 10 = 70 marks)



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MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – APRIL 2022
PAPER III

Monday, April 04, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Your answers should be specific to the questions asked.**

✍ **Draw neat labelled diagrams wherever necessary.**

✍ **Long Essay:**

1. Discuss the etiopathogenesis, clinical features, diagnosis and treatment of Ventilator Associated Pneumonia.

(15 marks)

2. Discuss in detail the clinical features, investigations and the treatment of pulmonary tuberculosis in a patient with chronic renal failure.

(15 marks)

3. **Short Essay:**

3A. Fat Embolism

3B. Progressive primary TB

3C. High Flow Nasal Cannula (HFNC)

3D. Tubercular laryngitis

3E. Non tubercular Mycobacterial infections – clinical features and diagnosis

3F. Miliary TB – diagnosis and differential diagnosis

3G. Scar Carcinoma

3H. Vaccines for tuberculosis

3I. Ocular Tuberculosis

3J. Prevention of tuberculosis among health care workers

(7 marks × 10 = 70 marks)



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MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – APRIL 2022
PAPER IV

Tuesday, April 05, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL questions.**
- ✍ **Your answers should be specific to the questions asked.**
- ✍ **Draw neat labelled diagrams wherever necessary.**

✍ **Long Essay:**

1. PET-CT scan and its utility in pulmonary diseases.

(15 marks)

2. Discuss the indications and contraindications for diagnostic bronchoscopy. Explain in detail the procedure of bronchoalveolar lavage (BAL) retrieval, the procedure complications and the role of BAL analysis in the evaluation of pulmonary diseases.

(15 marks)

3. **Short Essay:**

- 3A. Autofluorescence bronchoscopy.
- 3B. Bronchial artery embolisation
- 3C. General indications for lung transplantation.
- 3D. Nintedanib
- 3E. Lung Volume reduction surgery.
- 3F. MRI and its implication in pulmonary diseases.
- 3G. Cross sectional studies.
- 3H. Recent advances in management of Asthma.
- 3I. Baricitinib.
- 3J. Navigational bronchoscopy

(7 marks × 10 = 70 marks)

