

MANIPAL ACADEMY OF HIGHER EDUCATION
MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – MAY 2021
PAPER I

Monday, May 03, 2021

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 Essays:**

1. Describe the anatomy of pleura. Discuss the mechanism of formation and absorption of pleural fluid in health and diseases.

(15 marks)

2. Discuss the lung defences against air borne respiratory infections.

(15 marks)

3. **Short Essays:**

3A. Dead space in health and diseases

3B. High altitude pulmonary oedema

3C. Pre and post-HIV test counselling

3D. ARDS in new born

3E. J- receptors

3F. Surfactant

3G. Six minute walk test

3H. Hyperlucent lung on chest X-ray

3I. Sputum examination in lung disorders

3J. Equal pressure point theory in COPD

(7 marks × 10 = 70 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
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PAPER II

Tuesday, May 04, 2021

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 Essays:**

1. Discuss the clinical features, diagnosis and treatment of pneumocystis pneumonia. (15 marks)

2. Discuss the epidemiology, clinical features and management of severe acute respiratory syndrome (SARS). (15 marks)

3. **Short Essays:**

- 3A. Pulmonary Cryptococcosis
- 3B. Varicella pneumonia
- 3C. Pulmonary Melioidosis
- 3D. Newer antifungal agents
- 3E. Thoracic amoebiasis
- 3F. Septic embolism
- 3G. Allergic bronchopulmonary aspergillosis
- 3H. Pulmonary infections in HIV patient
- 3I. Nosocomial pneumonia
- 3J. Atypical bacterial pathogens of lung

(7 marks × 10 = 70 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – MAY 2021
PAPER III

Wednesday, May 05, 2021

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 Essays:**

1. Discuss pathophysiology, investigations and treatment of endobronchial tuberculosis. (15 marks)

2. Discuss the role of surgery in pleuropulmonary tuberculosis. (15 marks)

3. **Short Essays:**

- 3A. Rich focus
- 3B. Silico-tuberculosis
- 3C. Complications of Pulmonary Tuberculosis
- 3D. Lower lung field tuberculosis
- 3E. Cold abscess
- 3F. Corticosteroid adjunctive treatment in tuberculosis
- 3G. Tuberculosis and human immunodeficiency virus infection(HIV)
- 3H. Para-amino salicylic acid
- 3I. Tuberculosis in diabetes Mellitus
- 3J. Polymerase chain reaction

(7 marks × 10 = 70 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – MAY 2021
PAPER IV

Thursday, May 06, 2021

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 Essays:**

1. Discuss in detail etiology, pathophysiology, clinical features, diagnosis and management of Pulmonary AV malformations. (15 marks)

2. Classification of Idiopathic Interstitial Pneumonias and Management of IPF. (15 marks)

3. **Short Essays:**

- 3A. Classification of eosinophilic lung diseases and explain Loeffler's Syndrome.
- 3B. Ultrastructure of Cilium and gene therapy in cystic fibrosis.
- 3C. Pulmonary alveolar proteinosis.
- 3D. Radial EBUS.
- 3E. Acute Mountain Sickness
- 3F. Spontaneous pneumothorax.
- 3G. Paraneoplastic syndromes associated with lung cancer and briefly discuss one of them.
- 3H. TBNA-Indications, contraindications and its technique in evaluation of pulmonary diseases.
- 3I. Bronchiolitis Obliterans Organizing pneumonia.
- 3J. Conditions associated with bronchiectasis.

(7 marks × 10 = 70 marks)

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