

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – JUNE 2020**  
**SUBJECT: PAPER I: BASIC SCIENCES INCLUDING ANATOMY & PHYSIOLOGY**  
**PERTAINING TO RESPIRATORY SYSTEM**

Wednesday, June 03, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL the questions.**
- ✍ **Your answers should be specific to the questions asked.**
- ✍ **Draw neat labeled 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 in detail the Broncho-pulmonary segments.

(15 marks)

3. **Short Essay:**

- 3A. Muscarinic receptors
- 3B. Alveolar pores of kohn
- 3C. Bronchography
- 3D. CPAP
- 3E. CO<sub>2</sub> dissociation curve
- 3F. Surfactant
- 3G. Respiratory alkalosis
- 3H. Minute ventilation
- 3I. Pulmonary stretch receptors
- 3J. Type-II pneumocytes

(7 marks × 10 = 70 marks)



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## MANIPAL ACADEMY OF HIGHER EDUCATION

MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – JUNE 2020

SUBJECT: PAPER II: NON TUBERCULAR RESPIRATORY INFECTIOUS DISEASES

Thursday, June 04, 2020

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 etiopathogenesis, clinical features, diagnosis and treatment of Community Acquired Pneumonia.

(15 marks)

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

(15 marks)

3. Short Essay:

3A. Tropical pulmonary eosinophilia

3B. Diagnosis of Nocardiosis

3C. Varicella pneumonia

3D. Semi-invasive aspergillosis

3E. Inhalational Anthrax

3F. Aerosolized antibiotics for respiratory tract infections

3G. Pneumocystis pneumonia

3H. Acute mediastinitis

3I. Echinocandins

3J. Role of Procalcitonin in pulmonary infections

(7 marks × 10 = 70 marks)





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**MANIPAL ACADEMY OF HIGHER EDUCATION**

**MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – JUNE 2020**

**SUBJECT: PAPER III: TUBERCULOSIS – PULMONARY AND EXTRA PULMONARY**

Friday, June 05, 2020

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 in detail epidemiology, clinical features, diagnosis, treatment and outcome of Tuberculosis pleural effusion. (15 marks)
2. Discuss in detail the epidemiology, clinical feature, laboratory diagnosis and treatment of pulmonary tuberculosis. (15 marks)

3. **Short Essay:**

- 3A. Tuberculosis in pregnancy
- 3B. Tuberculosis pericarditis
- 3C. Pott's paraplegia
- 3D. Tuberculosis among health workers
- 3E. Tuberculosis vaccines
- 3F. Moxifloxacin
- 3G. Cutaneous tuberculosis
- 3H. Gastric tuberculosis
- 3I. Tuberculosis in children
- 3J. DOTS PLUS

(7 marks × 10 = 70 marks)



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**MANIPAL ACADEMY OF HIGHER EDUCATION**

**MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – JUNE 2020**

**SUBJECT: PAPER IV: NON – INFECTIOUS DISEASES OF LUNG AND RECENT  
ADVANCES IN PULMONARY MEDICINE**

Saturday, June 06, 2020

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 classification, pathophysiology and principles of management of respiratory failure.

(15 marks)

2. Discuss the status of beta-adrenergic blockers in obstructive airway disease.

(15 marks)

3. **Short Essay:**

3A. Asbestosis

3B. Decompression sickness

3C. Pulmonary alveolar proteinosis

3D. Inhaled corticosteroids

3E. Monoclonal antibody in bronchial asthma

3F. Macrolides in inflammatory airways diseases

3G. Obstructive sleep apnoea

3H. Silicosis

3I. Cystic fibrosis-Etiology, clinical features

3J. Radiation pneumonitis

(7 marks × 10 = 70 marks)

