

MANIPAL UNIVERSITY**MD (PULMONARY MEDICINE) DEGREE EXAMINATION – APRIL 2016****SUBJECT: PAPER I: BASIC SCIENCES INCLUDING ANATOMY & PHYSIOLOGY
PERTAINING TO RESPIRATORY SYSTEM**

Monday, April 18, 2016

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. Discuss the defences of the respiratory tract in detail. (15 marks)
2. Discuss the effects of aging on the respiratory system. (15 marks)

Short Essay:

- 3A. Pulse oxymeter
- 3B. Lymphatic drainage of the lung
- 3C. Flow volume loop
- 3D. Flail Chest
- 3E. Split pleura sign
- 3F. Pre and post-HIV test counselling
- 3G. ARDS in new born
- 3H. J- receptors
- 3I. Six minute walk test
- 3J. Sputum examination in lung disorders

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MD (PULMONARY MEDICINE) DEGREE EXAMINATION – APRIL 2016****SUBJECT: PAPER II: NON TUBERCULAR RESPIRATORY INFECTIONS DISEASES**

Tuesday, April 19, 2016

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 epidemiology, pathophysiology, clinical features and management of aspiration pneumonia. (15 marks)

3. **Short Essay:**

- 3A. Amoebic pulmonary disease
- 3B. Semi-invasive aspergillosis
- 3C. Paragonimiasis
- 3D. Nocardiosis
- 3E. Vaccination against pulmonary infections
- 3F. Thoracic actinomycosis
- 3G. Quinolones in lung infections
- 3H. Tropical pulmonary eosinophilia
- 3I. Primary influenza viral pneumonia
- 3J. Echinocandins

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MD (PULMONARY MEDICINE) DEGREE EXAMINATION – APRIL 2016****SUBJECT: PAPER III: TUBERCULOSIS – PULMONARY & EXTRA PULMONARY**

Wednesday, April 20, 2016

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. Write in detail the epidemiology, clinical features, diagnosis and treatment of drug resistant tuberculosis.

(15 marks)

2. Discuss in detail the epidemiology, clinical features, diagnosis, differential diagnosis and treatment of lymph node tuberculosis.

(15 marks)

3. **Short Essay:**

3A. Mycobacterium avium-intracellulare

3B. Middle brook 7 H 10 medium

3C. *Miliary tuberculosis*

3D. *Open-negative syndrome*

3E. Epi-tuberculosis

3F. Ziehl-Neelsen method of staining

3G. Thoracoplasty in treatment of tuberculosis

3H. Endocrinal disturbances in tuberculosis

3I. Progressive primary tuberculosis

3J. *Mycobacterium kansasii*

(7 marks × 10 = 70 marks)



Reg. No.

MANIPAL UNIVERSITY

MD (PULMONARY MEDICINE) DEGREE EXAMINATION – APRIL 2016

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

Thursday, April 21, 2016

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 clinical presentation, diagnostic evaluation and management of Pulmonary Vasculitis.
(15 marks)

2. Discuss the risk factor, non invasive and invasive diagnostic staging techniques of lung cancer.

(15 marks)

3. **Short Essay:**

3A. Hypoxemic respiratory failure

3B. Lung protective ventilation strategies, discuss in detail one of the strategies

3C. Management of pulmonary hypertension

3D. Perfenidone

3E. Pulmonary manifestations of Systemic lupus erythematosus

3F. Immunopathogenesis and management of sarcoidosis

3G. Bronchiolitis Obliterans Organizing pneumonia

3H. Hypereosinophilic syndrome

3I. Causes and management of occupational asthma

3J. Coal workers pneumoconiosis

(7 marks × 10 = 70 marks)

