

MANIPAL UNIVERSITY

MD (PULMONARY MEDICINE) DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER I: BASIC SCIENCES INCLUDING ANATOMY & PHYSIOLOGY
PERTAINING TO RESPIRATORY SYSTEM

Wednesday, April 01, 2015

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 in detail the physiological effects of high altitude and diving on lung. (15 marks)

2. Discuss in detail about pulmonary surfactant. Discuss its implications for the pathogenesis and treatment of respiratory diseases. (15 marks)

3. Short Essay:

3A. Haldane effect

3B. Dead space

3C. Nebulisation

3D. Auto PEEP

3E. Whole body plethysmography

3F. Anatomy of pleura

3G. Respiratory muscles

3H. Lung interstitium

3I. Phosphodiesterase inhibitors

3J. Segmental anatomy of the lungs

(7 marks × 10 = 70 marks)



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MD (PULMONARY MEDICINE) DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER II: NON TUBERCULAR RESPIRATORY INFECTIONS DISEASES

Thursday, April 02, 2015

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 pathogenesis, clinical features and management of allergic bronchopulmonary aspergillosis.

(15 marks)

2. Discuss the clinical features, diagnosis and treatment of influenza virus pneumonia.

(15 marks)

3. Short Essay:

3A. Ventilator associated pneumonia

3B. Invasive aspergillosis

3C. Thoracic actinomycosis

3D. Paragonimiasis

3E. Newer agents active against methicillin-resistant S.aureus

3F. Varicella pneumonia

3G. Opportunistic pulmonary infections in HIV

3H. Inhalational Anthrax

3I. Aerosolized antibiotics for respiratory tract infections

3J. Lady Windermere syndrome

(7 marks × 10 = 70 marks)



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MD (PULMONARY MEDICINE) DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER III: TUBERCULOSIS – PULMONARY & EXTRA PULMONARY

Saturday, April 04, 2015

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. Define XDR TB. Elaborate on epidemiology, aetiology, clinical features, diagnosis and approach regarding management of a case of XDR TB.

(15 marks)

2. Discuss the epidemiology, etiological factors, clinical features, diagnosis and treatment of Tuberculosis in immune compromised host.

(15 marks)

3. Short Essay:

3A. Tuberculosis Meningitis

3B. Lower Lung Field Tuberculosis

3C. Para-amino salicylic acid (PAS)

3D. Tuberculin skin test

3E. Mycobacteria growth indicator tube test (MGIT)

3F. Silico-tuberculosis

3G. Anti-tuberculosis drug induced hepatitis

3H. Ocular tuberculosis

3I. Scar Carcinoma

3J. Post tuberculosis sequelae

(7 marks × 10 = 70 marks)



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MD (PULMONARY MEDICINE) DEGREE EXAMINATION – APRIL 2015

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

Monday, April 06, 2015

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. GINA guidelines for management of Asthma. (15 marks)
2. Gold Guidelines for management of COPD. (15 marks)
3. Short Essay:
 - 3A. Radiological findings in Bronchiectasis
 - 3B. Pulmonary alveolar microlithiasis
 - 3C. Ventilator Induced lung injury
 - 3D. Obesity hypoventilation syndrome
 - 3E. NIV-its uses, complications
 - 3F. Management of malignant pleural effusion
 - 3G. Outcome assessment tools for pulmonary rehabilitation
 - 3H. High altitude pulmonary edema and its management
 - 3I. Hypercapnic respiratory failure
 - 3J. Metabolic acidosis

(7 marks × 10 = 70 marks)

