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## MANIPAL ACADEMY OF HIGHER EDUCATION MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – JULY 2023 PAPER I

Monday, July 03, 2023

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL questions.
- Z Your answers should be specific to the questions asked.
- Braw neat, labelled diagrams wherever necessary.
- ∠ Long Essay:
- 1. Describe defence mechanisms of respiratory tract and role of alveolar macrophages in respiratory defence.

(15 marks)

2. Describe segmental anatomy of lung and their clinico-surgical importance.

(15 marks)

- 3. Short Essay:
- 3A. Respiratory Alkalosis
- 3B. Secondary pulmonary lobule
- 3C. Ventilation-Perfusion imbalance
- 3D. Equal pressure point
- 3E. Mucociliary clearance
- 3F. Cheyne-stokes breathing
- 3G. Lymphatics of Lung
- 3H. Cardio-pulmonary exercise testing
- 3I. Varenicline
- 3J. APUD cell

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 

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## MANIPAL ACADEMY OF HIGHER EDUCATION MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – JULY 2023 PAPER II

Tuesday, July 04, 2023

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL questions.
- Z Your answers should be specific to the questions asked.
- Draw neat labelled diagrams wherever necessary.
- ∠ Long Essay:
- 1. Discuss the clinical features, diagnosis and treatment of pneumocystis jirovecii pneumonia.

(15 marks)

2. Discuss in detail about the definition, etiology, diagnosis and treatment of Hospital acquired pneumonia.

(15 marks)

- 3. Short Essay:
- 3A. Congenital Bronchiectasis
- 3B. Hypersensitivity Pneumonitis
- 3C. Pleural mesothelioma
- 3D. Fibrothorax.
- 3E. Pulmonary manifestation of Rheumatoid Arthritis.
- 3F. Chronic eosinophilic pneumonia
- 3G. Avian flu
- 3H. Systemic Manifestations of COPD
- 3I. Non Resolving pneumonia
- 3J. Immunotherapy in Bronchial Asthma

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 

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## MANIPAL ACADEMY OF HIGHER EDUCATION MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – JULY 2023 PAPER III

Wednesday, July 05, 2023

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 etiology, pathogenesis, clinical features and management of sepsis.

(15 marks)

2. Describe in detail the clinical features, diagnosis and management of genitourinary tuberculosis.

(15 marks)

- 3. Short Essay:
- 3A. Disseminated Tuberculosis
- 3B. Tuberculin skin test
- 3C. Cor-pulmonale diagnosis and management.
- 3D. Cerebral Tuberculoma
- 3E. Hypercapnic Respiratory Failure
- 3F. Role of Surgery in Pulmonary Tuberculosis
- 3G. CURB-65 and its implications in pneumonia management
- 3H. Tuberculosis in children diagnosis and management
- 3I. Septic Embolism
- 3J. Ventilator Induced Lung Injury

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 

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## MANIPAL ACADEMY OF HIGHER EDUCATION MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – JULY 2023 PAPER IV

Thursday, July 06, 2023

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 in detail about ECMO

(15 marks)

2. Discuss the types, technique, uses and complications of EBUS

(15 marks)

- 3. Short Essay:
- 3A. Endobronchial valves
- 3B. Electromagnetic navigation bronchoscopy
- 3C. Video Assisted Thoracoscopic Surgery-VATS
- 3D. Impulse Oscillometry
- 3E. Types of research and add a note on quantitative research
- 3F. Role of macrolides in respiratory diseases
- 3G. Retrospective cohort study
- 3H. Indications and contra-indications for lung transplantation
- 3I. Radiation pneumonitis
- 3J. TB Vaccines

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$