MANIPAL ACADEMY OF HIGHER EDUCATION

MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – APRIL 2019

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

Tuesday, April 02, 2019

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 blood gas transport in the lung parenchyma in detail.

(15 marks)

2. Discuss the principles and clinical application of cardiopulmonary exercise testing.

(15 marks)

3. **Short Essay:**

3A. Sputum examination in lung disorders.

3B. Equal pressure point theory in COPD.

3C. Closing volume.

3D. Mucociliary escalator.

3E. Peak expiratory flow rate (PEFR).

3F. Apoptosis.

3G. PLUNC genes.

3H. Alveolar hypoventilation.

3I. Cheyne-stokes respiration.

3J. High attitude pulmonary oedema.

(7 marks × 10 = 70 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – APRIL 2019

SUBJECT: PAPER II: NON TUBERCULAR RESPIRATORY INFECTIOUS DISEASES

Wednesday, April 03, 2019

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 Nosocomial Pneumonia.

(15 marks)

2. Discuss the microbiology, clinical features, diagnosis and treatment of lung abscess.

(15 marks)

3. **Short Essay**
3A. Vaccination against pulmonary infections.
3B. New agents active against methicillin-resistant *S. aureus*.
3C. Aspergilloma.
3D. Atypical bacterial pathogens of lung.
3E. Role of Procalcitonin in pulmonary infections.
3F. Respiratory syncytial virus.
3G. Fungal Sinusitis.
3H. Lady Windermere syndrome.
3I. Treatment of Pulmonary Hydatid Disease.
3J. Pulmonary infections in HIV patient.

(7 marks × 10 = 70 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – APRIL 2019

SUBJECT: PAPER III: TUBERCULOSIS – PULMONARY & EXTRA PULMONARY

Thursday, April 04, 2019

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 epidemiology, clinical features, investigations and treatment of Pleural tuberculosis.

(15 marks)

2. Describe in detail the epidemiology, pathology, clinical features, diagnostic tests, treatment, complications and preventive measures of pulmonary tuberculosis.

(15 marks)

3. **Short Essay:**
3A. Tuberculosis of testis.
3B. Tuberculosis osteomyelitis.
3C. Tuberculosis of vulva.
3D. Mycobacterium fortuitum.
3E. Pyrazinamide.
3F. Surgery in management of pulmonary tuberculosis.
3G. Tuberculosis in children.
3H. Tuberculosis and diabetes mellitus.
3I. Lymph node tuberculosis.
3J. Vaccines for tuberculosis.

(7 marks × 10 = 70 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

MD (RESPIRATORY MEDICINE) DEGREE EXAMINATION – APRIL 2019

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

Friday, April 05, 2019

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:**

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1. Etiology, clinical features, diagnosis and management of Cor pulmonale.

                                                                      (15 marks)

2. Classification, clinical features and management of pulmonary hypertension.

                                                                      (15 marks)

3. **Short Essay:**

3A. Tension pneumothorax.

3B. Pleurodesis.

3C. Drug Induced Pulmonary disease.

3D. Risk Factors for lung cancer.

3E. Fat embolism.

3F. Elaborate the health hazards of tobacco use.

3G. Differences between VATS and Pleuroscopy.

3H. Metaboilc alkalosis.

3I. Ventilator Induced lung injury.

3J. Obesity hypoventilation syndrome.

                                                      (7 marks × 10 = 70 marks)