

POST GRADUATE EXAMINATION, APRIL - 2019

**MD PULMONARY MEDICINE
(PAPER ONE)**

BASIC SCIENCES AS APPLIED TO PULMONARY MEDICINE

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Describe the various lung defense mechanisms. Discuss anatomy and functions of cilia. (20)

Q. 2. Describe ill effects of smoking. Discuss smoking cessation. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Surfactant
- b. Lung function tests for small airways
- c. Diagnostic pleuroscopy

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Sequestered lung segment
- b. Tracheal tug
- c. Indacaterol
- d. Virtual bronchoscopy
- e. Tidal percussion

X

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**MD PULMONARY MEDICINE
(PAPER TWO)**

PRINCIPLES AND PRACTICE OF TUBERCULOSIS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe TB granuloma & discuss role of cell mediated immunity in tuberculosis. (20)
- Q. 2.** Discuss treatment failure in TB & further management of such a patient. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- Discuss 'The stop TB strategy' under RNTCP
 - Discuss policies of BCG vaccination in India
 - Discuss clinical features, diagnosis and treatment of abdominal TB
- Q. 4. Write short notes on:** (5 x 6 = 30)
- BACTAC
 - DOTS PLUS
 - Primary drug resistance
 - Open negative syndrome
 - Quinolones in TB

X

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**MD PULMONARY MEDICINE
(PAPER THREE)**

DISEASES OF RESPIRATORY SYSTEM OTHER THAN TUBERCULOSIS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1. Describe briefly both diagnosis and management of non small cell lung cancer (NSCLC). (20)
- Q. 2. Discuss the pathogenesis and management of pulmonary arterial hypertension. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- Indication of corticosteroid in community acquired pneumonia
 - Newer drugs used in treatment of IPF (Interstitial Pulmonary Fibrosis)
 - Newer oral anticoagulants used for pulmonary thrombo-embolism
- Q. 4. Write short notes on: (5 x 6 = 30)
- Tropical pulmonary eosinophilia
 - Lymph node stations of mediastinum usually sampled by endobronchial ultrasound system
 - Tyrosine kinase inhibition used for different lung diseases
 - Management of hypersensitivity pneumonitis
 - Indications of HRCT of thorax

X

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**MD PULMONARY MEDICINE
(PAPER FOUR)**

**BASIC PRINCIPLES OF MEDICINE AS RELATED TO TUBERCULOSIS AND RESPIRATORY
DISORDERS AND RECENT ADVANCES IN PULMONARY MEDICINE**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe the pathological basis of HIV and TB co-infection. Discuss how HIV has affected the epidemiological scenario of tuberculosis. **(20)**
- Q. 2.** What is stepwise approach in management of asthma? Discuss merits and demerits of DPIs and PMDIs. **(20)**
- Q. 3. Describe briefly:** **(3 x 10 = 30)**
- a. Newer drugs in management of COPD
 - b. Treatment of IPF
 - c. Radiological signs of hydatid cysts
- Q. 4. Write short notes on:** **(5 x 6 = 30)**
- a. Lung transplantation
 - b. Obstructive sleep apnoea
 - c. Omalizumab
 - d. Six minute walk test
 - e. Targeted therapy for lung cancer

X