RESPIRATORY DISEASES

PAPER I

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

Write short notes on:

1. What are the differentiating points between Acute Lung Injury (ALI) and ARDS? Mention at least six important extra-pulmonary causes of ARDS. Discuss briefly management of ARDS.


3. Discuss cardiopulmonary manifestations of progressive systemic sclerosis and briefly outline its diagnosis and management.

4. Clinical indications and utility of cardiopulmonary exercise testing.

5. Indications, technique and complications of bronchoprovocation tests.

6. Describe briefly about pleuro-pulmonary amoebiasis. How will you managed such cases?

7. What are anti-neutrophil cytoplasmic antibodies (ANCA)? What is the importance of ANCA in respiratory diseases?

8. Enumerate extra-thoracic manifestations of sarcoidosis. Discuss special issues in the management of each condition.

9. Classify anti-retroviral drugs according to the mechanism of action.

10. Cardiovascular, metabolic and neuro-cognitive consequences of obstructive sleep apnea syndrome

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RESPIRATORY DISEASES

PAPER II

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

1. Discuss etiopathogenesis and preventive strategies for ventilator associated pneumonia (VAP)?

2. What is XDR tuberculosis? Enumerate group 4 and 5 anti-tubercular agents and outline principles of therapy for MDR-TB.


4. Write a brief note on the epidemiological risk factors of chronic obstructive pulmonary disease.

5. Briefly describe the quality of life (QOL) and methods or scales used to measure the QOL for lung cancer.

6. What is H1N1 influenza? How does it spread? What are its treatment and preventive measures?

7. How will you evaluate a case of chronic cough with normal chest X-ray?

8. Discuss the problem of silicosis in India. How will you diagnose different forms of silicosis and its complications? Briefly outline prevention of silicosis.


10. Discuss causes and investigation of a patient who presented with Solitary Pulmonary Nodule (SPN).

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POSESSION / USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE EXAMINATION HALL.
RESPIRATORY DISEASES

PAPER III

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

1. What are the criteria for tube thoracostomy in patients with parapneumonic effusion? Discuss the role of intrapleural thrombolytic therapy in such cases and its complications. 4+6

2. Describe superior sulcus tumour. Discuss its clinico-radiological features and management. 2+(5+3)

3. Enumerate congenital anomalies of lung parenchyma. Differentiate between extralobar and intralobar sequestration. 4+6

4. What is re-expansion pulmonary edema? Outline its clinical diagnosis and management. 4+(3+3)

5. Discuss the role of broncho-alveolar lavage for diagnosis and treatment of respiratory diseases. 5+5

6. What is non-tuberculous mycobacterial infection (NTM)? Outline briefly clinical features, diagnosis and treatment of pulmonary disease caused by NTM. 2+(2+3+3)

7. What are the indications of airway stents? Elaborate on different types of stents, its introduction and complications. 2+(3+3+2)

8. Discuss pre-operative pulmonary assessment. 10

9. Discuss the diagnosis and management of a case of obstructive sleep apnea syndrome. 5+5

10. Discuss pathogenesis of thrombo-embolic pulmonary hypertension. 10

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RESPIRATORY DISEASES

PAPER IV

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

1. Discuss causes of hypercapnic respiratory failure, its clinical features, diagnosis, ventilatory support and outcome. 2+2+2+3+1

2. Discuss the diagnosis, severity assessment and management of a lady with acute severe asthma with pregnancy. 2+3+5

3. Describe clinical utility of molecular methods for diagnosis of tuberculosis. 10

4. Discuss clinical manifestations of kyphoscoliosis. What is Cobb's angle? How does it affect the prognosis of the patient? 4+3+3

5. Discuss International classification of sleep disorders. Describe clinical manifestations of alveolar hypoventilation. 5+5

6. Draw a diagram showing site of possible herniation of diaphragmatic hernia. Define Morgagni hernia. Write its clinical presentation and management. 4+2+(2+2)

7. Discuss updated GOLD guidelines for severity assessment of COPD and its implications. 6+4

8. Draw the diagram of oxygen dissociation curve. What are the clinical implications of this curve? 5+5

9. What are dyskinetic cilia syndromes? Draw the electron microscopic structure of a cilia. 5+5

10. What are the direct and indirect radiological signs of atelectasis? 5+5

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