

**TUBERCULOSIS & RESPIRATORY DISEASES/PULMONARY MEDICINE**

PAPER – III

RPD/D/16/42/III

Time : 3 hours

Max. Marks : 100

**Important instructions:**

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. a) Nucleic acid amplification tests for the diagnosis of tuberculosis. 5+5  
b) Epidemiology of HIV related tuberculosis.
2. a) Indications of non-invasive ventilation in acute respiratory failure? 4+6  
b) Role of non-invasive ventilation in the management of COPD patients with acute exacerbation.
3. a) Enumerate recently developed anti-tuberculosis drugs. 2+(4+4)  
b) Management of MDR and XDR tuberculosis.
4. a) Infection control in ICU. 5+5  
b) Management of hyponatremia in ICU.
5. Clinical presentation, diagnosis and management of obesity hypoventilation syndrome. 3+3+4
6. How will you evaluate and manage a case of acute severe asthma in ICU? 4+6
7. a) Indications and types of sleep studies. 5+5  
b) Restless leg syndrome.
8. Current status of bed side ultrasound and echocardiography in ICU. 6+4
9. Cardiovascular and metabolic complications of obstructive sleep apnea. 6+4
10. Various prophylactic strategies used in the ICU to decrease morbidity and mortality. 10

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