

**RESPIRATORY MEDICINE**

PAPER-I

Time: 3 hours  
Max. Marks:100

RPD/J/19/42/I

**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) Secondary lobule. 5+5  
b) Type 2 Alveolar epithelial cell.
2. a) Mucociliary clearance in health and disease. 5+5  
b) Development of lung.
3. a) Residual volume and Closing volume. (3+3)+4  
b) Dynamic compression of the airways.
4. a) Cough reflex. 5+5  
b) J receptors.
5. a) Oxy-haemoglobin dissociation curve. 5+5  
b) Body plethysmography.
6. a) Broncho-provocation testing. 5+5  
b) Impulse Oscillometry.
7. a) Long term oxygen therapy. 4+3+3  
b) Oxygen toxicities.  
c) Lung diseases and air travel.
8. a) Renal contribution to acid base balance. 4+3+3  
b) Utility of Anion Gap.  
c) Urine Anion Gap.
9. a) Innate Immunity in the lung. 5+5  
b) Lung macrophage.
10. a) Odds ratio. 3+4+3  
b) Randomization methods.  
c) P value.

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