

**RESPIRATORY MEDICINE**
PAPER-ITIME: 3 HOURS
MAX. MARKS: 100

RPD/J/20/42/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) Anatomical dead space. 5+5
b) Partial pressures of oxygen and carbon dioxide in the respiratory system.
2. a) Respiratory physiology in pregnancy. 5+5
b) Factors affecting oxygen transport.
3. a) Epithelium lining of lower respiratory tract. 5+5
b) Pulmonary surfactant.
4. a) Alveolar–arterial Gradient. 5+5
b) Aging lung.
5. a) Case-control study and its analysis. 5+5
b) Strengths and weaknesses of case-control studies.
6. a) Stages of lung development. 5+5
b) Alveolar macrophage.
7. a) Equal pressure point. 5+5
b) Static and Dynamic compliance of lung.
8. a) Sample size for scientific study. 5+5
b) Odds Ratio.
9. a) Pathogens induced innate immune response in the lung. 5+5
b) Volume time curve.
10. a) Secondary Pulmonary Lobule. 5+5
b) Elastic recoil of the lung.
