

**RESPIRATORY MEDICINE**  
**PAPER-I**

TIME: 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:**

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| 1. a) Anatomical dead space.<br>b) Partial pressures of oxygen and carbon dioxide in the respiratory system. | 5+5 |
| 2. a) Respiratory physiology in pregnancy.<br>b) Factors affecting oxygen transport.                         | 5+5 |
| 3. a) Epithelium lining of lower respiratory tract.<br>b) Pulmonary surfactant.                              | 5+5 |
| 4. a) Alveolar–arterial Gradient.<br>b) Aging lung.  | 5+5 |
| 5. a) Case-control study and its analysis.<br>b) Strengths and weaknesses of case-control studies.           | 5+5 |
| 6. a) Stages of lung development.<br>b) Alveolar macrophage.   | 5+5 |
| 7. a) Equal pressure point.<br>b) Static and Dynamic compliance of lung.                                     | 5+5 |
| 8. a) Sample size for scientific study.<br>b) Odds Ratio.  | 5+5 |
| 9. a) Pathogens induced innate immune response in the lung.<br>b) Volume time curve.                         | 5+5 |
| 10. a) Secondary Pulmonary Lobule.<br>b) Elastic recoil of the lung.   | 5+5 |

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