

RESPIRATORY DISEASES

PAPER-I

RPD/J/18/42/I

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:

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|-----|---|-------|
| 1. | a) Structure of acinus
b) Function of Alveolocapillary membrane
c) Mucocilliary escalator | 2+3+5 |
| 2. | a) Forced vital capacity
b) Anatomic dead space
c) Functional residual capacity | 3+2+5 |
| 3. | a) Measurement of compliance of lung
b) Alveoarterial oxygen gradient | 5+5 |
| 4. | a) Role of kidney in acid-base balance
b) Anion gap acidosis | 5+5 |
| 5. | a) Alpha 1 antitrypsin deficiency
b) Flow volume loop in clinical practice | 5+5 |
| 6. | a) Leukotrienes
b) T lymphocyte and bronchial asthma | 5+5 |
| 7. | a) Causes of Hypercapnic respiratory failure
b) Positive end expiratory pressure (PEEP) | 5+5 |
| 8. | a) Causes of acute pulmonary thromboembolism
b) Ventilation-Perfusion mismatch | 5+5 |
| 9. | a) Mechanism of Dyspnoea
b) Ultrafine particulate matter | 5+5 |
| 10. | a) Antibiotic Stewardship
b) Drug treatment of MRSA infections | 5+5 |
