

RESPIRATORY MEDICINE

PAPER-I

Time: 3 hours
Max. Marks:100

RPD/D/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:

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| 1. | a) Basic acid base physiology.
b) A-a oxygen gradient. | 5+5 |
| 2. | a) Flow Volume Loops.
b) Test for respiratory muscles strength. | 5+5 |
| 3. | a) Systematic review.
b) Confidence interval. | 5+5 |
| 4. | a) Carbon monoxide transfer factor test.
b) Six-minute walk test. | 5+5 |
| 5. | a) Architecture and function of normal sleep.
b) Common consequences of sleep deprivation. | 5+5 |
| 6. | a) Biomarkers in ICU.
b) Use of pharmacokinetics and pharmacodynamics of drugs in ICU. | 5+5 |
| 7. | a) Statistical significance of difference in means.
b) The Chi-square test. | 5+5 |
| 8. | a) Role of Capnometry in respiratory medicine.
b) Arterial pulse oximetry. | 5+5 |
| 9. | a) How do you measure resistance and compliance and its application in trouble shooting?
b) Cardiorespiratory physiology related to mechanical ventilation. | 5+5 |
| 10. | a) Normal oxygen uptake and transport parameters.
b) Oxygen dissociation curve. | 5+5 |
