

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:

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