

TUBERCULOSIS & RESPIRATORY DISEASES/PULMONARY MEDICINE

PAPER – I

RPD/D/16/42/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:

1. Control of ventilation during sleep and its impact on patients suffering from chronic respiratory diseases. 5+5
2. a) What are the respiratory problems associated with high altitude? 4+3+3
b) What are the mechanisms of high altitude pulmonary edema?
c) How do you manage such a case?
3. Oxygen uptake, transport and utilization in a critically ill patient. 4+3+3
4. a) Confidence interval. 5+5
b) Methods of randomization.
5. Newer methods of assessment of fluid status and responsiveness in critically ill patients. 10
6. Technique & interpretation of: 5+5
a) 6 minutes walk test.
b) Carbon monoxide transfer factor test.
7. a) Basics of acid base physiology. 5+5
b) How will you systematically approach to interpret an acid base abnormality?
8. Epidemiology, risk factors and natural history of obstructive sleep apnea. 3+3+4
9. Basic cardiorespiratory physiology related to mechanical ventilation. 5+5
10. Role of spirometry in the diagnosis of COPD and asthma. 5+5
