

TUBERCULOSIS & RESPIRATORY DISEASES/PULMONARY MEDICINE

PAPER – I

RPD/J/17/42/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. a) Classification of shock. 3+7
b) Dynamic assessment of fluid resuscitation in shock.
2. a) Gross anatomy of the tracheobronchial tree. 6+4
b) Test of small airway function.
3. a) Mediastinal lymph node anatomy. 6+4
b) Secondary pulmonary lobule: Clinical application.
4. a) Factors governing airway deposition of aerosols. 5+5
b) Advantages and disadvantages of different modes of inhalation therapy.
5. Exercise testing in respiratory diseases: Methods and application. 5+5
6. a) Metabolic alkalosis: Causes & diagnosis. 5+5
b) Respiratory acidosis: Causes & diagnosis.
7. Mechanism of drug resistance in tuberculosis. 10
8. a) Pharmacogenomics 4+6
b) Antibiotics for pseudomonas chest infections.
9. Diagnosis of tuberculosis: conventional methods and molecular diagnosis. 6+4
10. a) Validation of questionnaire for epidemiology. 5+5
b) Methods of sampling.
