

TUBERCULOSIS & RESPIRATORY DISEASES/PULMONARY MEDICINE

PAPER – I

RPD/J/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. Lung physiology alterations in asthma and COPD. 10
2. Embryonic development of diaphragm and classification of developmental anomalies. 7+3
3. a) Mechanism of exercise induced asthma (EIA). 6+4
b) Prevention of EIA.
4. a) Mechanism of drug-action in tuberculosis. 6+4
b) Mechanisms of rifampicin resistance.
5. a) Diagnosis of pleural tuberculosis. 7+3
b) Role of oral corticosteroids in tubercular pleural effusion.
6. TNM Classification of non small cell carcinoma of lung and role of surgery in its management. 7+3
7. Respiratory problems associated with ascent to high altitude and management of high altitude pulmonary edema. 6+4
8. a) Stages in drug development for clinical use. 5+5
b) Definitions of causality of adverse events due to drugs with examples in pulmonary disease.
9. a) Student 't' test with two examples. 5+5
b) Hypothesis tests: Alpha levels and p values.
10. a) Cohort control studies Vs Case control studies. 5+5
b) Prevalence of COPD in India.
