**TUBERCULOSIS & RESPIRATORY DISEASES/PULMONARY MEDICINE**

**PAPER – 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.  
   
2. Embryonic development of diaphragm and classification of developmental anomalies.  
   
3. a) Mechanism of exercise induced asthma (EIA).  
   b) Prevention of EIA.  
   
4. a) Mechanism of drug-action in tuberculosis.  
   b) Mechanisms of rifampicin resistance.  
   
5. a) Diagnosis of pleural tuberculosis.  
   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. Respiratory problems associated with ascent to high altitude and management of high altitude pulmonary edema.  
   
8. a) Stages in drug development for clinical use.  
   b) Definitions of causality of adverse events due to drugs with examples in pulmonary disease.  
   
9. a) Student ‘t’ test with two examples.  
   b) Hypothesis tests: Alpha levels and p values.  
   
10. a) Cohort control studies Vs Case control studies.  
    b) Prevalence of COPD in India.  

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