

TUBERCULOSIS & RESPIRATORY DISEASES / PULMONARY MEDICINE

PAPER – I

RPD/J/15/42/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.	Definition of asthma and methods used for epidemiological surveys of this disorder.	2+8
2.	a) Anti-neutrophilic cytoplasmic antibodies (ANCA). b) Importance of ANCA in respiratory diseases.	7+3
3.	a) What are small airways? b) Tests utilized in the detection of small airways dysfunction.	4+6
4.	a) Molecular targets used in the treatment of lung cancer. b) Principles of gene therapy in lung cancer.	5+5
5.	a) Define chylothorax and enumerate its causes. b) Anatomy and physiology of thoracic duct.	(2+2)+6
6.	a) Co-oximetry. b) Principles of pulse oximetry. c) Factors affecting the oxyhemoglobin dissociation curve.	3+4+3
7.	Alveolar macrophages: their morphology and functions.	5+5
8.	a) Enlist the anomalies of pulmonary vasculature. b) Scimitar syndrome: Etiopathogenesis and its clinico-radiological presentation.	3+(3+4)
9.	Pathogenesis of respiratory failure during sleep.	10
10.	Enumerate the molecular methods for diagnosis of tuberculosis and describe their clinical utility.	4+6
