

RESPIRATORY MEDICINE

PAPER-I

Time: 3 hours
Max. Marks:100

RPD/D/20/42/I

Important Instructions:

- *You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.*
- *Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.*
- *No additional supplementary answer sheet booklet will be provided.*
- *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) Pulmonary Surfactant – Proteins, structure and regulation. 4+3+3
b) Muco-ciliary escalator.
c) Respiratory Mucous- Proteins and function.
2. What is a randomized control Trial? Discuss examples of any two of the trials done in the specialty of Respiratory Medicine. 4+6
3. a) Indications of body plethysmography and how it is performed. 5+5
b) Cardio pulmonary exercise testing.
4. ARDS: Definition, pathology and management. 3+3+4
5. a) Auto PEEP in COPD: How to recognize and manage. 5+5
b) HFNC and its usage in recent times.
6. a) Acid-Base balance. 5+5
b) Utility of anion gap.
7. a) Pathophysiology of SARS- COV-2 infection. 5+5
b) Etiopathogenesis of Sarcoidosis.
8. a) How to determine optimum sample size for scientific study? 5+5
b) Role of bias in a scientific study.
9. a) Lymphatic supply of pleura. 5+5
b) Complications of obstructive sleep apnea.
10. a) Mutations in lung cancer. 5+5
b) Targeted therapy in lung cancer.
