

RESPIRATORY DISEASES**PAPER – I**

Time : 3 hours

RPD/D/17/D/42/I

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) Structure of surfactant proteins.
b) Functions of surfactant proteins.
c) Regulation of surfactant production. | 2+5+3 |
| 2. | a) Oxygen dissociation curve.
b) Alteration of oxygen affinity.
c) Bohr Effect. | 5+3+2 |
| 3. | a) Diffusion capacity of carbon monoxide (DLCO).
b) Factors influencing diffusion capacity. | 5+5 |
| 4. | a) Respiratory contribution to acid-base balance.
b) Base excess and base deficit
c) Hyperchloraemic acidosis. | 5+3+2 |
| 5. | a) Morphology of emphysema.
b) Risk factors for COPD. | 5+5 |
| 6. | a) Cells of the immune system in asthma.
b) Molecular mediators in asthma. | 5+5 |
| 7. | a) Aerosol delivery during invasive mechanical ventilation.
b) Pulmonary toxicities associated with anti-rheumatic and anti-inflammatory drugs. | 5+5 |
| 8. | a) Physiologic changes in respiratory system in pregnancy.
b) Sleep disordered breathing and pregnancy. | 6+4 |
| 9. | a) Clinical and molecular characteristics of lung cancer in smokers and non smokers.
b) EGFR mutations in non-small cell lung cancer. | 5+5 |

P.T.O.



RESPIRATORY DISEASES

PAPER – I

10. a) Research design. 2+3+2+3
 b) Observational study.
 c) Meta analysis.
 d) Cohort Study.

www.FirstRanker.com