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10X10 = 100 Marks

- . Describe the various methods to the various method to the various methods to the various methods to the various
- What are the components and functions of pulmonary surfactant? Write a note on disorders of surfactant homeostasis.
- 3. Describe Mucociliary clearance in the airways. What are the strategies to manage Mucociliary dysfunction?
- 4. Explain the pressure-volume loop, hysteresis and their clinical implications.
- 5. What is loop gain? Explain its role in the control of ventilation during sleep.
- A 50-year-old man is posted for right upper lobectomy for a SPN. How will you evaluate him preoperatively?
- Bronchial challenge test indications, agents, procedure and interpretation.
- 8. Describe the control of circadian rhythm and list the disorders of circadian sleep rhythm.
- Explain the oxygen dissociation curve.
- 10 Discuss the effect of aging on the lung and enumerate age-related changes in lung function.

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