

The West Bengal University of Health Sciences
M.D. (Respiratory Medicine) May - June, 2022 Examination

Paper: I

Full Marks: 100
Time: 3 Hours

Attempt all questions

1. What is surfactant ? Discuss its clinical utility. 4+6
2. Write short notes on : 5+5
 - a) Factors governing airway deposition of aerosols
 - b) Advantages and disadvantages of different modes of inhalation therapy.
3. Discuss causes and management of massive hemoptysis. 3+7
4. Define respiratory failure. Discuss different types of respiratory failure. 3+7
5. Define DLCO. How is it measured ? What factors influence it ? What is its clinical utility ? 2+3+2+3
6. Write short notes on : 5+5
 - a) Metabolic alkalosis: Causes and management.
 - b) Mucociliary escalator.
7. Draw and describe important features of flow volume loops. How are they useful in differentiating airway obstruction at different levels? 5+5
8. Enumerate developmental disorders of lung. Discuss diagnosis and treatment of lung sequestration. 5+5
9. Draw and describe oxyhemoglobin dissociation curve. Explain its clinical implications. 5+5
10. Discuss anatomy of bronchopulmonary segments with diagram and its clinical significance. 10