

Respiration

1. List the structures of the respiratory system in order in which air flows through them during inhalation and briefly describe the function of each.
2. Explain how the structure of alveoli is related to their function.
3. Explain the role of cilia in the respiratory tract.
4. Describe the relationship of lungs to the pleural membranes and thoracic cavity
5. Describe and distinguish between breathing, external respiration, internal respiration and cellular respiration
6. Describe the mechanics of the process of inhalation including how the various structures involved move in relation to each other
7. Explain the roles of oxyhaemoglobin and carbamino-haemoglobin in transport of gases in blood
8. Explain how the partial pressure of O₂ and CO₂ influence the transport at alveolus-capillary level and at the capillary-tissue level(non-lung)
9. Explain the nervous control of breathing and indicate feedback loops involved
10. Explain the structures and nerves involved in nervous control of breathing
11. Identify the factors involved in homeostatic control of the rate and depth of breathing
12. Describe the different amounts of lung capacity
13. Describe some of the consequences of cigarette smoke and environmental pollution on the respiratory tract