

Multiple Choice Questions

1. Which of the following best describes Cell Respiration?
 - A. A thin layer of flattened cells.
 - B. The movement of air into and out of the lungs.
 - C. Covers the surface of alveoli and helps gas exchange.
 - D. The controlled release of energy from glucose; to make ATP in cells.

2. What is the main function of surfactant in the film of moisture on the surface of the alveoli?
 - A. It lubricates the small tubes that branch off the bronchi.
 - B. It helps prevent alveoli from collapsing.
 - C. It creates a thin layer of flattened cells.
 - D. It increases the movement of air into and out of the lungs.

3. Ventilation can be best described as ...
 - A. The movement of air into and out of the lungs.
 - B. The movement of alveoli to help gas exchange.
 - C. The movement of the trachea carrying air into the lungs.
 - D. The movement of oxygen and carbon dioxide through the walls of the alveoli.

4. Which is the best description of Gas Exchange?
 - A. The diffusion of oxygen and carbon dioxide through the walls of the alveoli.
 - B. The movement of air into and out of the lungs.
 - C. The movement of the bones which form the ribcage
 - D. The diffusion of oxygen and carbon dioxide through the bronchi

5. What is the main function of the network of capillaries which surround the alveoli?
 - A. They produce surfactant
 - B. They carry blood which contains surfactant
 - C. They carry blood which transports oxygen and carbon dioxide.
 - D. To increase the movement of air into and out of the lungs.



6. What is the main function of type II pneumocytes in the alveoli?

- A. They carry blood which encourages diffusion of oxygen into leucocytes.
- B. They produce surfactant
- C. They provide a thin gas exchange surface
- D. To increase the movement of air into and out of the lungs

Written Questions

7. Surface area is an important feature of the gas exchange surface of any organism.

Define **gas exchange**

(1mark)

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8. Describe the structure of alveoli using a diagram. Annotate your diagram with the adaptations of alveoli and the names of the cells as well as their functions

(6 marks)

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