Respiratory system worksheet 1

Tues September 10th

Fill in the blank

1. The respiratory system's main function is to supply                    And remove               .

2. Pulmonary ventilation is the act of breathing and consists of                         and              .

3. The gas exchange between the lungs and blood is Respiration and the gas exchange between blood and tissue is Respiration.

4. The zone's primary function is to move air.

5. The maximum amount of air you can exhale is called                       .

6. The upper respiratory system contains only the zone.

7. Dead space is the area in the respiratory system where does not occur.

Multiple choice

1. What is the first step of respiration?
   - Internal respiration
   - Transportation of gasses
   - Pulmonary ventilation
   - External respiration

2. Which of the following is a function of the upper respiratory system?
   - Heat
   - Gas exchange
   - Dishimidfy
   - Inhale

3. Intrapleural pressure is always:
   - About 4 mmHg lower than atmospheric pressure
   - The same as atmospheric pressure
   - About 4 mmHg Higher than atmospheric pressure
   - The same as intrapulmonary pressure

4. What type of alveolar cell is the sight of gas exchange?
   - Alveolar type 2 cells
   - Alveolar type 1 cells
   - Cardio myocytes
   - Macrophage
5. Without this the alveoli would collapse because of water retention.
   ○ Air
   ○ Macrophage
   ○ Bacteria
   ○ Surfactant

6. True or false the lower respiratory system contains part of both the conducting zone and the respiratory zone?
   ○ True
   ○ False

7. Boyle’s law states that:
   ○ Gasses flow from high to low pressure
   ○ Gas pressure is not related to size
   ○ That you can boil water to get gas
   ○ That volume and pressure of a gas are negatively correlated.

8. Residual volume is:
   ○ The air that is left in the lungs after maximum exhalation
   ○ The amount of air normally moved in normal breathing
   ○ The maximum amount of air you can inhale
   ○ The maximum amount of air you can exhale

Short answer
1. What are the four steps of respiration?

2. What parts of the respiratory system are part of the respiratory zone? What is the function of the respiratory zone?

3. What is surfactant?

4. Define Tidal volume, residual volume, inspiratory reserve and expiratory reserve.
5. Explain the process of pulmonary ventilation? How does the air move through the lungs?

6. What are the 3 main properties of the mammalian respiratory system?

7. What are the three alveolar cell types? What are their functions?

8. What are the functions of the upper respiratory system?