RESPIRATORY SMALL GROUP QUIZ (#7)

Select the one best answer.

1. Which one of the following lung volumes/capacities can be measured with simple spirometry.
   a) Function residual capacity
   b) Tidal volume
   c) Total lung capacity
   d) Residual volume

2. During the course of an inspiration, intrapleural pressure
   a) increases (becomes closer to atmospheric pressure).
   b) is the same absolute value as alveolar pressure.
   c) decreases (becomes more subatmospheric).
   d) does not change.

3. Oxygen content in arterial blood
   a) is inversely related to hemoglobin concentration.
   b) is lower than the oxygen content in venous blood.
   c) increases during prolonged breath holding.
   d) is increased by stimuli that lead to polycythemia.

4. The carotid body chemoreceptors
   a) detect changes in both arterial oxygen and carbon dioxide tension.
   b) are stimulated by reduced oxygen saturation of hemoglobin.
   c) are not involved in pH homeostasis.
   d) send afferent nerve impulses to the brain via the vagus nerve.

5. In healthy individuals, ascent to high altitude (>15,000 ft) is associated with
   a) increased arterial carbon dioxide tension.
   b) hypoventilation.
   c) anemia.
   d) reduced oxygen saturation of hemoglobin.