1. Name and define all of the structures associated with the respiratory system.

2. What is the main difference between Bronchi, Bronchioles and Alveoli?

3. Explain the breathing mechanics of inhalation. (What happens to the diaphragm? What happens to the volume and pressure within the thoracic cavity?)

4. Explain the breathing mechanics of exhalation. (What happens to the diaphragm? What happens to the volume and pressure within the thoracic cavity?)

5. Explain the movement of oxygen and carbon dioxide during external respiration.

6. Explain the movement of oxygen and carbon dioxide during internal respiration.

7. How is oxygen transported in the blood?

8. How is carbon dioxide transported in the blood? What enzyme catalyzes the reaction?

9. Explain how hemoglobin acts as a buffer.

10. Which part of the brain controls automatic breathing movements?

11. What is a chemoreceptor? What are the two different types of chemoreceptors? Where are they located? Which type is more important?

12. Explain the body’s response to increased levels of carbon dioxide and decreased levels of oxygen?

13. Explain the two responses that the respiratory system has towards exercise.