The Respiratory System Quiz

Part A: Knowledge and Understanding (19 marks)

1. Why do we need to breathe? (3 marks)
2. Match the following parts of the breathing system to their description. (8 marks)
3. Larynx
4. Bronchioles
5. Bronchi tubes
6. Epiglottis
7. Alveoli
8. Trachea
9. Pharynx
10. Nasal Cavity
11. Also called the wind pipe; connects throat to lungs.
12. It is the back of the throat where nose and mouth join.
13. The flap of tissue that covers trachea when you swallow so that food goes to stomach and NOT to lungs.
14. They are similar to small branches in a bundle of grapes. They do NOT have cartilage holding them open.
15. 2 tubes – one goes to the left and one to right chest cavity
16. Moistens and warms the incoming air
17. 300 trillion tiny sacs that have a very, very thin membrane and they are shaped like little grapes
18. located at the back of the throat, just below the epiglottis; also called the voice box
19. In what order does air flow through the parts from question 2 when you breathe in? (2 marks)
20. (a) In what part of the lungs does gas exchange occur? (1 mark)

(b) Describe how oxygen gets into the blood stream (2 marks)

1. What are 3 structures that protect your lungs from physical damage? (3 marks)

Part B: Application (6 marks)

1. a) Using the concept of pressure gradients, explain how inspiration occurs.

b) Using the concept of pressure gradients, explain how expiration occurs.