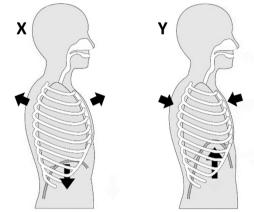
Question 1

- (c) Answer the following questions in relation to your knowledge of the human circulatory and breathing systems.
 - (ii) **In your answerbook**, sketch the structure of an alveolus and its associated blood supply.

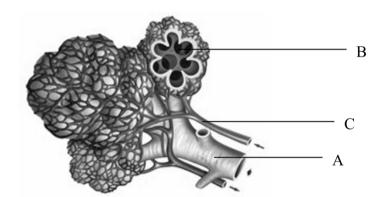
On your diagram, clearly indicate the overall directions in which oxygen **and** carbon dioxide are moving.

- (iii) The diagrams (X and Y) show the two stages of breathing with the arrows representing the body movements involved in breathing.
 - 1. State which diagram (X or Y) represents inhalation.
 - 2. Explain in detail how you know inhalation is occurring in this diagram.



Question 2

(c)



The diagram shows microscopic detail from a human lung.

- (i) Name the parts labelled A, B and C.
- (ii) Give two features of the structures in the diagram that allow for efficient gas exchange.
- (iii) Name a disorder of the breathing system and say how it may be:
 - 1. Caused.
 - 2. Prevented.
 - 3. Treated.
- (iv) Which gas, dissolved in the blood, can trigger deeper or faster breathing?