

Organism exchange substances with their environment – AS Biology P1

1. No.1

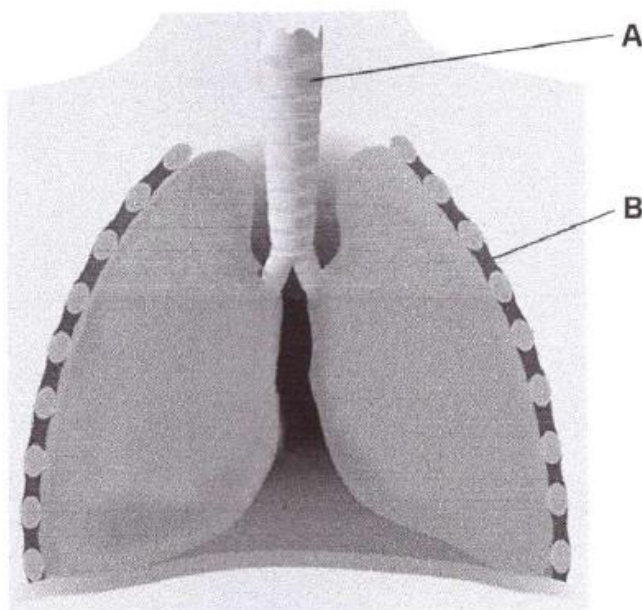
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 Figure 1 shows a diagram of the human gas exchange system.

Figure 1



Structure **B** is muscle. The volume of the thorax is increased when structure **B** contracts.

Name the structures labelled **A** and **B**.

[2 marks]

A Trachea

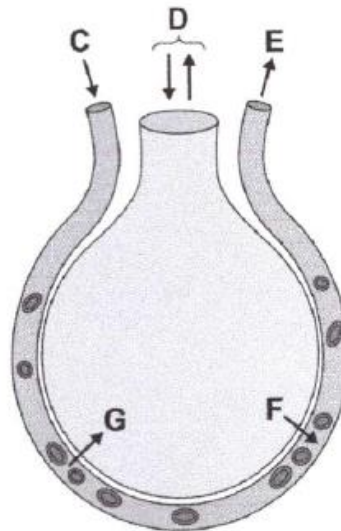
B External intercostal muscle.

0 1 . 2

Figure 2 is a diagram of an alveolus and a blood vessel associated with the alveolus.

The direction of the movement of substances is shown by the arrows labelled **C**, **D**, **E**, **F** and **G**.

Figure 2



Complete **Table 1** by writing the correct letter, **C**, **D**, **E**, **F** or **G**, in the box next to each statement. You may use each letter once, more than once or not at all.

[2 marks]

Table 1

Box	Statement
F	represents the diffusion of oxygen
D	represents the transport of a gas mixture
C	represents blood moving at the highest pressure

0 1 . 3

Describe and explain **one** adaptation of a **single** alveolus for gas exchange.

[2 marks]

Epithelium contains thin cells for short diffusion pathway of gases.