

Gas Exchange in Humans

Question Paper 2

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|-------------------|-------------------------|
| Level | IGCSE |
| Subject | Biology |
| Exam Board | CIE |
| Topic | Gas Exchange in Humans |
| Paper Type | (Extended) Theory Paper |
| Booklet | Question Paper 2 |

Time Allowed: 27 minutes

Score: /22

Percentage: /100

1 The ribcage and diaphragm are involved in the breathing mechanism to ventilate the lungs.

Fig. 3.1 is a flow chart that shows the changes that take place when breathing in.

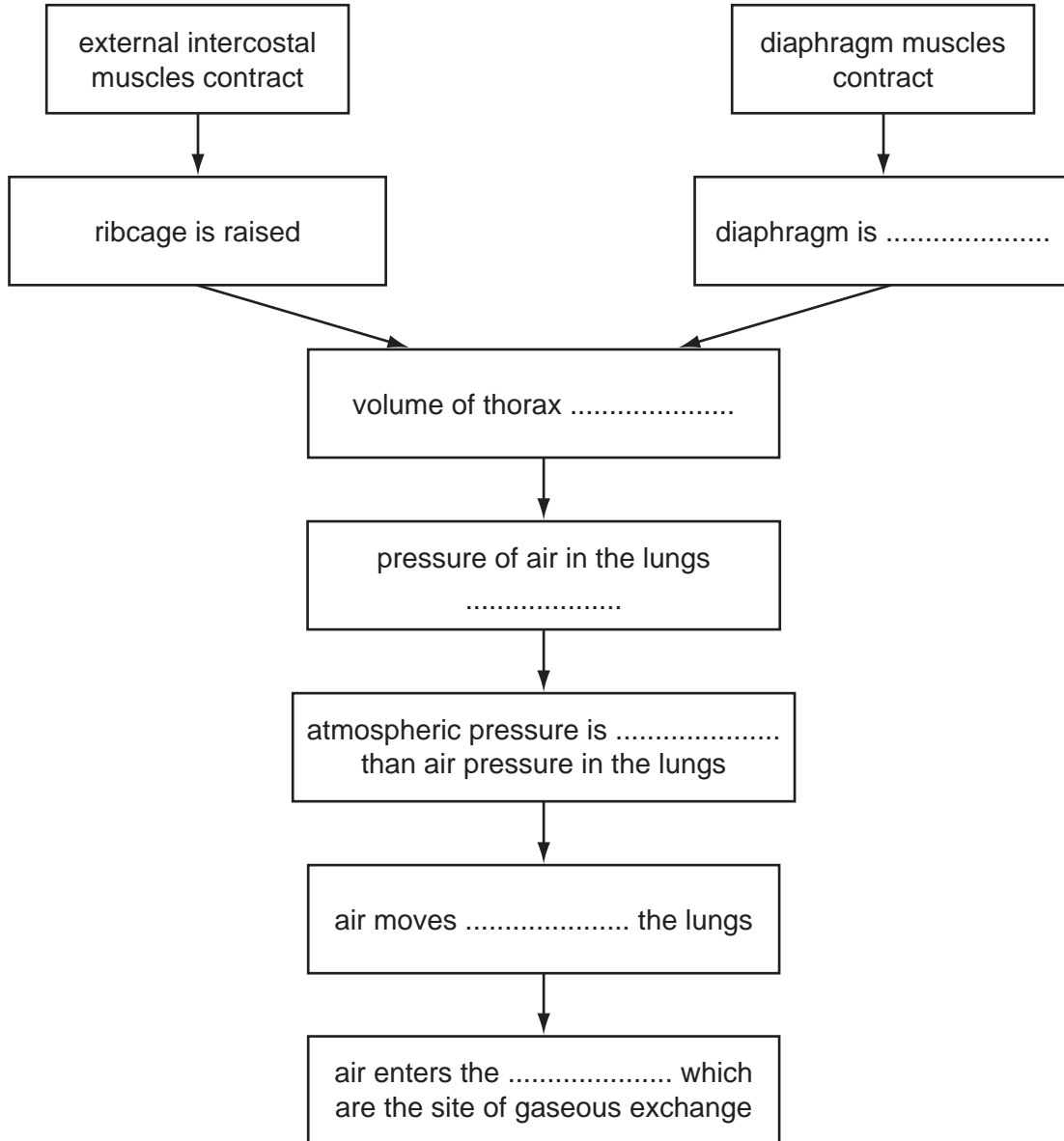


Fig. 3.1

(a) Complete Fig. 3.1 by writing appropriate words in the spaces provided.

[6]

(b) Fig. 3.2 shows part of the epithelium that lines the trachea.

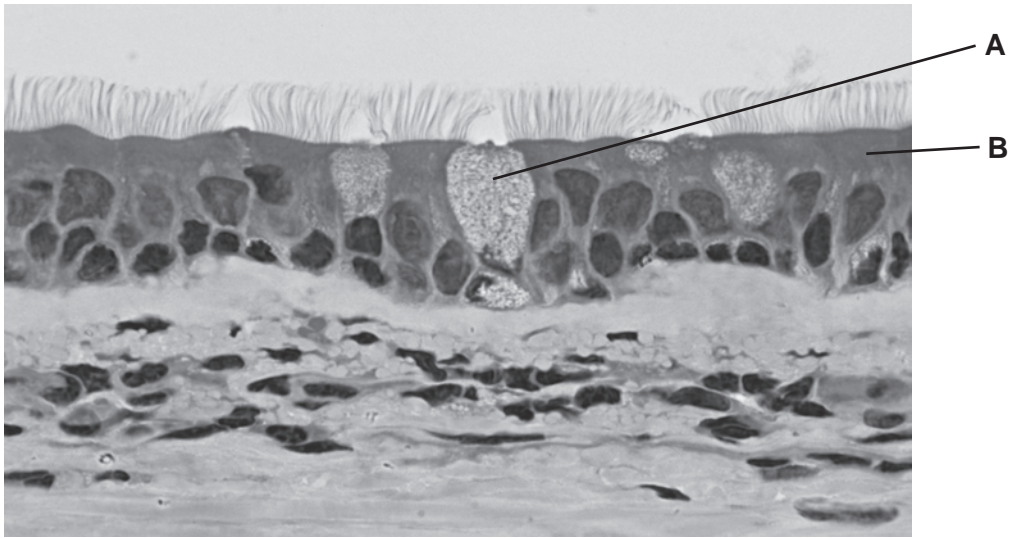


Fig. 3.2

Explain how the cells labelled **A** and **B** in Fig. 3.2 protect the gas exchange system.

A

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B

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..... [4]

[Total: 10]

2 Fig. 3.1 shows structures in the human thorax.

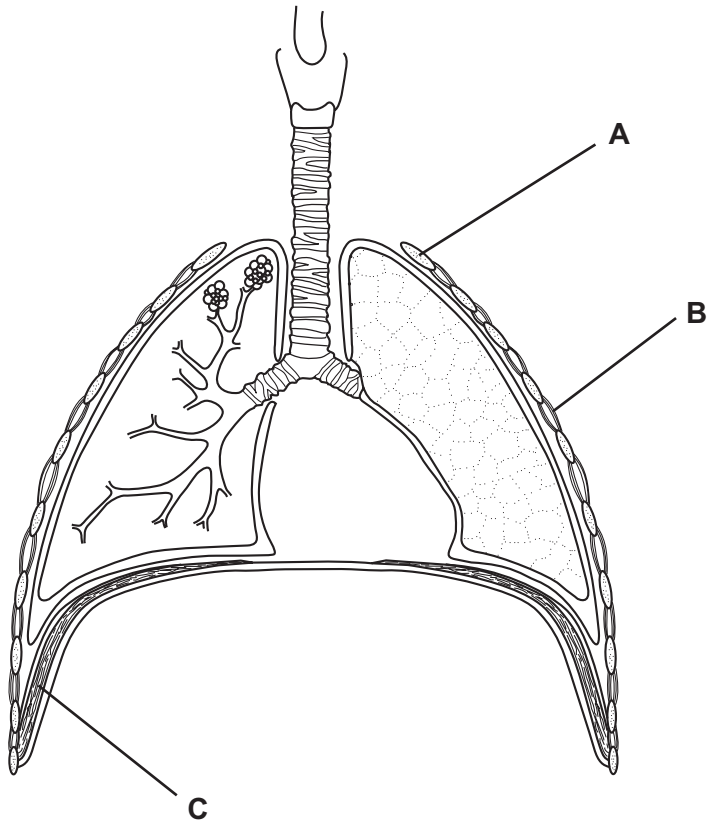


Fig. 3.1

(a) Complete the table by identifying parts **A**, **B** and **C** and describing their roles in breathing in.

| part | name | role in breathing in |
|----------|-------|-------------------------|
| A | | |
| B | | |
| C | | |

Fig. 3.2 shows some cells from the lining of the bronchus.

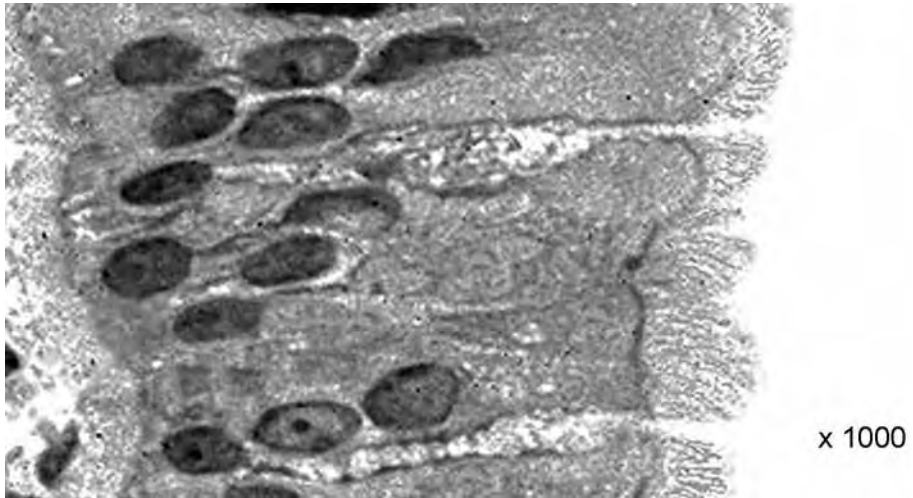


Fig. 3.2

(b) (i) Explain how these cells help to keep the bronchus free from dust and bacteria.

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..... [4]

(ii) Describe how the actions **one named** compound of tobacco smoke.

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..... [2]

[Total: 12]