

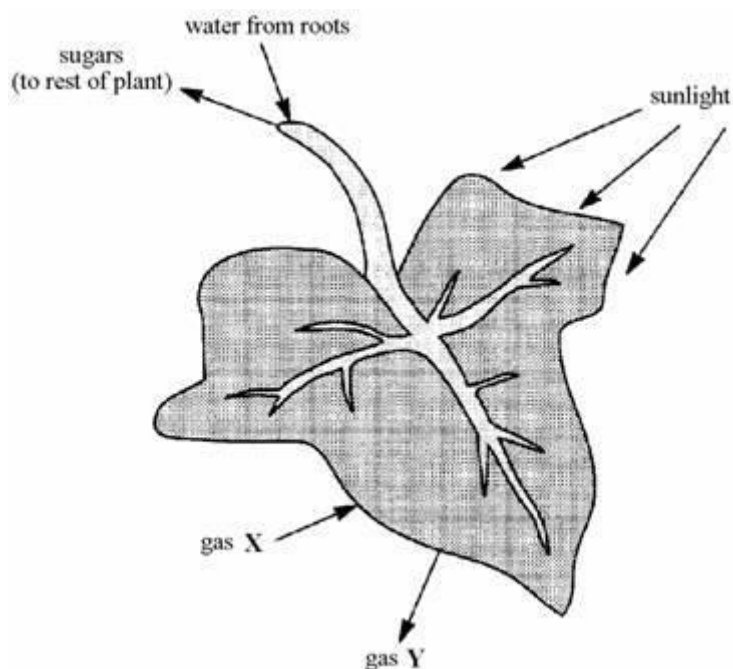
Name of the Student: _____

Max. Marks : 17 Marks

Time : 17 Minutes

Q1.

The diagram shows a plant leaf during photosynthesis.



(a) Name:

(i) gas X; _____

(ii) gas Y. _____

(2)

(b) Why is sunlight necessary for photosynthesis?

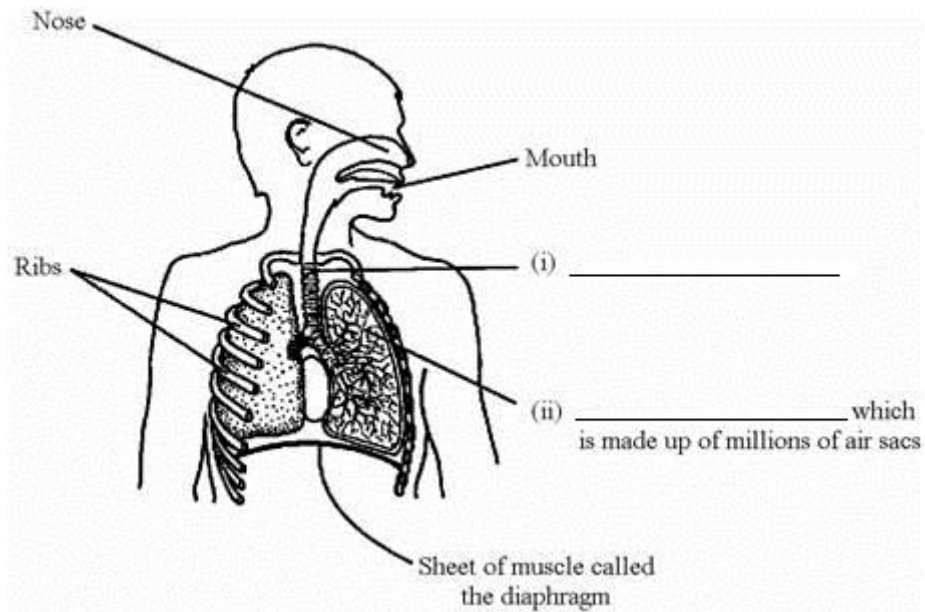
(1)

(Total 3 marks)

Q2.

The diagram shows the human breathing system.

(a) Complete the labels (i) and (ii).



(2)

(b) Complete the following sentence.

When we breathe out, the mixture of gases which leaves the air sacs contains **more** _____ and **less** _____ than the mixture of gases which enters the air sacs.

(2)

(Total 4 marks)

Q3.

- (a) (i) Complete the word equation for the process of aerobic respiration.

Glucose + _____ → carbon dioxide + water

(1)

- (ii) Which organ removes carbon dioxide from your body?

(1)

- (b) Use names from the box to complete the **two** spaces in the passage.

carbon dioxide	lactic acid	nitrogen	oxygen	water
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Anaerobic respiration can occur when an athlete does vigorous exercise.

This is because there is not enough _____ in the body.

The product of anaerobic respiration is _____.

(2)

(Total 4 marks)

Q4.

The table shows the percentage of some gases in the air a boy breathed in and out.

Gases	Air breathed in	Air breathed out
carbon dioxide	0.04%	4.0%
oxygen	20.0%	16.0%
water vapour	1.0%	6.0%

- (a) What happens in the lungs to change the levels of oxygen and carbon dioxide in this way?

Oxygen _____

Carbon dioxide _____

(4)

- (b) Compare the percentage of water vapour in the air breathed out with the percentage in air breathed in.

(2)

(Total 6 marks)