

Name of the Student: _____

Max. Marks : 25 Marks

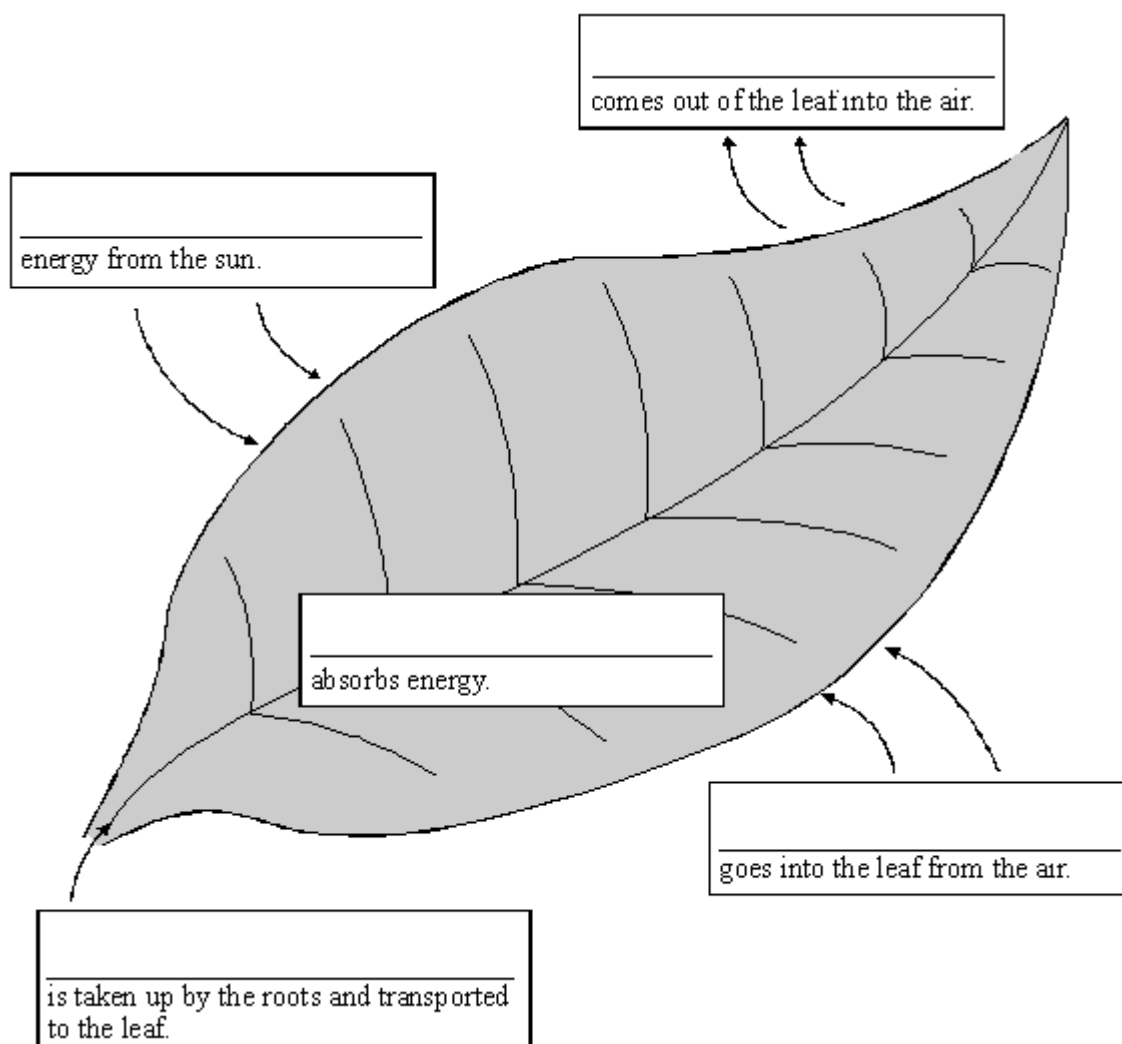
Time : 25 Minutes

Q1.

The diagram shows how a leaf of a green plant makes glucose.

- (a) Use words from the box to complete the labels on the diagram. You may use each word once or not at all.

carbon dioxide	chlorophyll	glucose	heat
light	oxygen	water	



(5)

- (b) (i) Complete the following sentence.

Glucose in food is a type of _____. When we eat it, it gives us energy.

(1)

- (ii) The plant turns some of the glucose into starch. Why is starch useful to the plant?

(1)

- (iii) What does the plant do with the rest of the glucose?

(1)

- (c) (i) What is the name of the process outlined in the diagram?

(1)

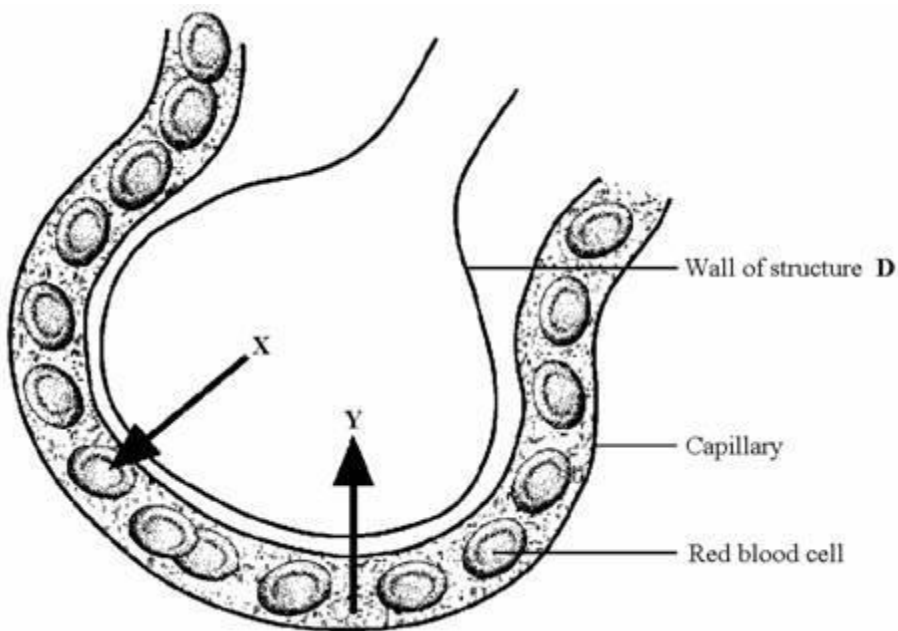
- (ii) Give **one** way that leaves are adapted to do this process.

(1)

(Total 10 marks)

Q2.

The diagram shows an enlargement of structure **D**.



The arrows show the direction of the gases exchanged in this structure. Name gas **X** and gas **Y**.

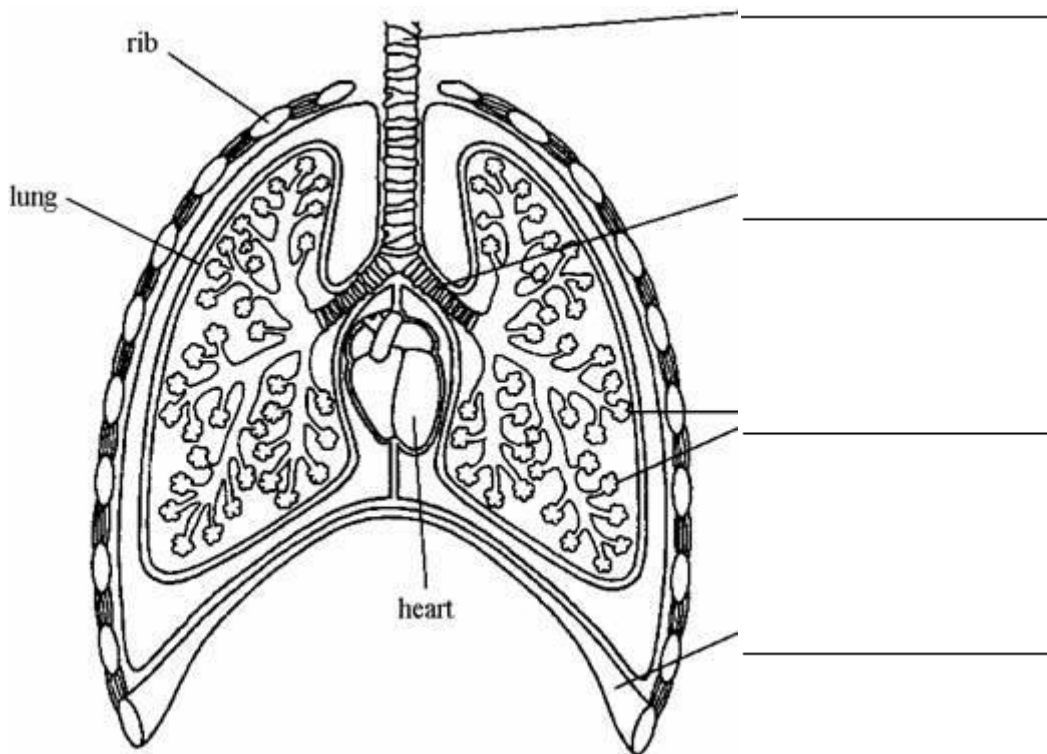
X _____

Y _____

(Total 2 marks)

Q3.

The diagram shows part of the breathing system in a human.



- (a) Use words from the list to label the parts on the drawing.

alveoli bronchiole bronchus diaphragm trachea (windpipe)

(4)

- (b) Where in the lungs does oxygen enter the blood?

(1)

- (c) Which process in cells produces carbon dioxide?

(1)

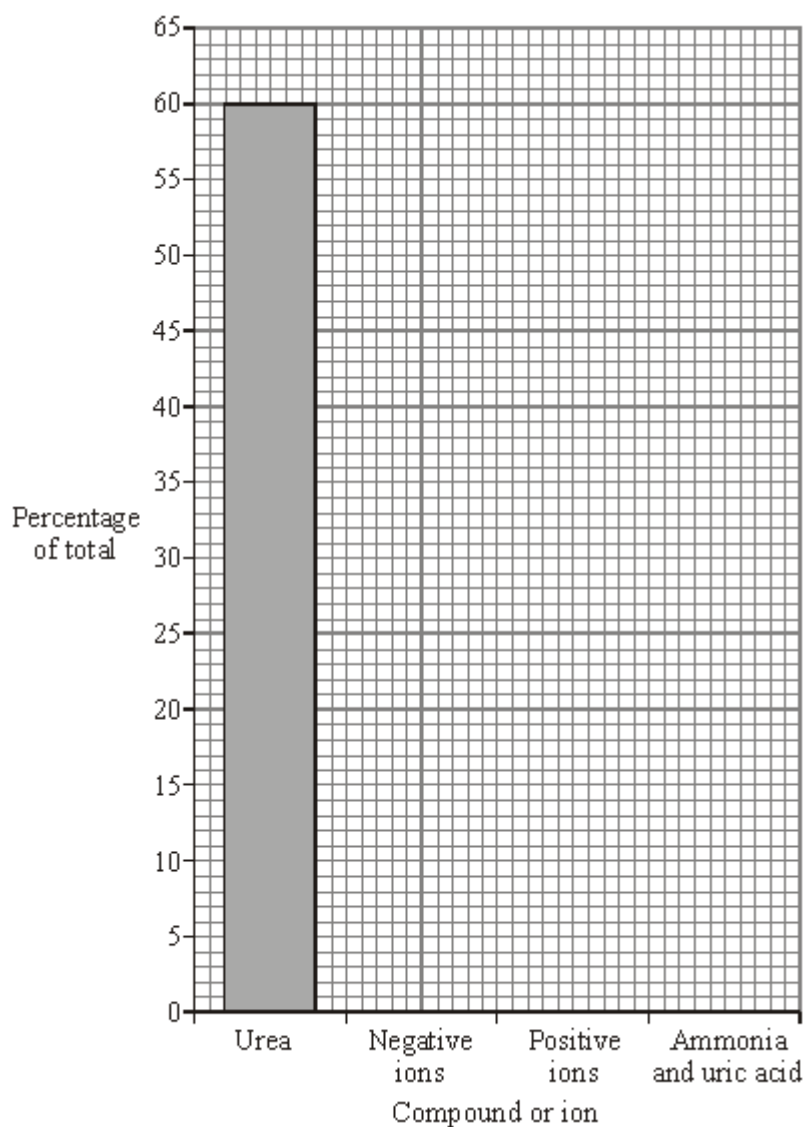
(Total 6 marks)

Q4.

- (a) The table shows the compounds and ions dissolved in a student's urine.

Compound or ion	Percentage of total
urea	60
negative ions	25
positive ions	10
ammonia and uric acid	5

- (i) Complete the bar chart. One bar has been drawn for you.



(2)

- (ii) There is a total of 10 g of compounds and ions dissolved in a sample of this student's urine. Calculate the mass of urea in the sample. Show clearly how you work out your answer.

Mass of urea _____ g

(2)

(b) Use words from the box to complete the sentences.

anus	bladder	kidneys	liver	lungs
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Plasma transports carbon dioxide from the body to the _____ .

Plasma transports urea from the _____ to the _____ .

(3)

(Total 7 marks)