



Tao Nan School
Primary 5 Science
2025 Weighted Assessment 2

Section A	18
Section B	12
Total	30

Name: _____ () Date: _____
Class: _____ Parent's signature: _____

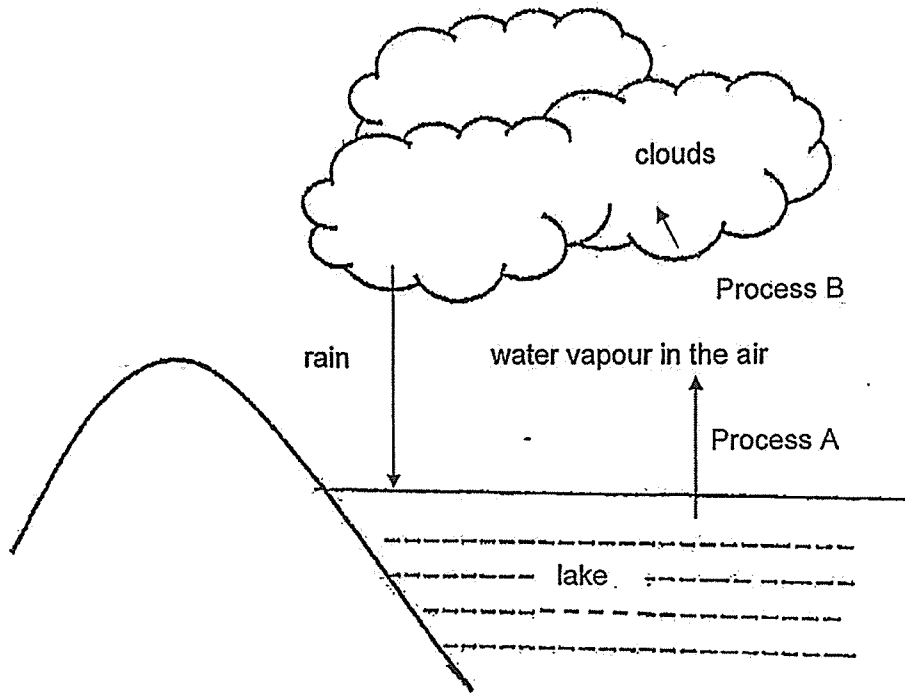
Section A (9 x 2 marks)

For each question from 1 to 9, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and write it in the table below.

Question	1	2	3	4	5	6	7	8	9
Answer									

(18 marks)

1. Study the water cycle below.

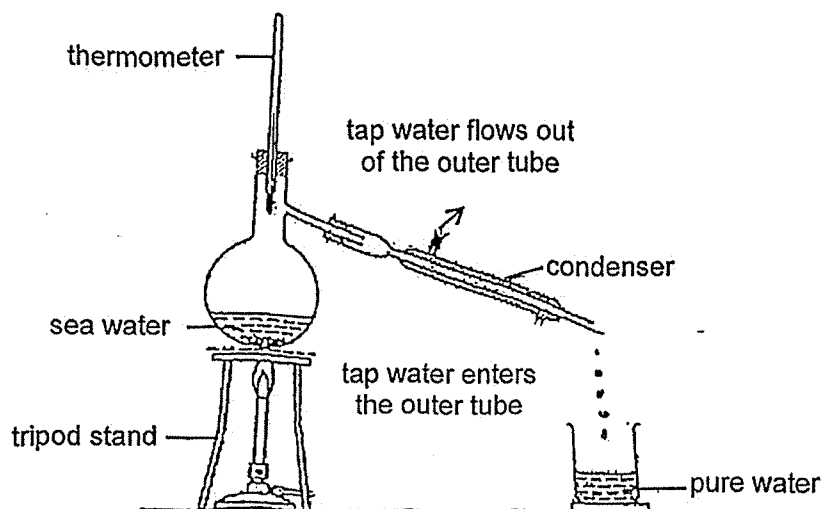


Which of the following describes Process A and Process B?

	Process A	Process B
(1)	condensation	evaporation
(2)	evaporation	condensation
(3)	evaporation	freezing
(4)	boiling	condensation

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2. In the set-up below, the sea water is allowed to boil and pure water can be obtained at the end of the process. The steam from the boiling sea water enters the condenser.



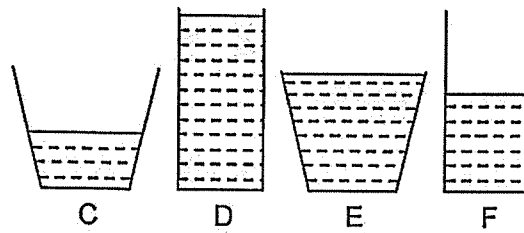
The tap water flows around the outer tube of the condenser and does not mix with the steam in the inner tube.

Based on the set-up above, what is the function of the continuous flow of tap water in the outer tube of the condenser?

- (1) It removes all the salt from the sea water.
- (2) It controls the boiling point of the sea water.
- (3) It allows the steam to lose heat to the tap water.
- (4) It allows the steam to gain heat from the tap water.

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3. Hassan wanted to investigate if the amount of exposed surface area of water affects the rate of evaporation. Containers C, D, E and F, are made of the same material but filled with different amounts of water as shown below.



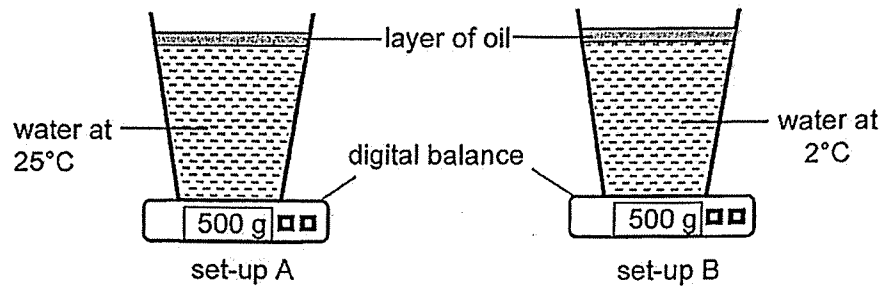
Container	Amount of water in the container (ml)
C	40
D	90
E	90
F	40

Which containers could he use for his experiment?

- (1) C and E
- (2) D and E
- (3) D and F
- (4) E and F

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4. Muthu prepared two set-ups with the same amount of water but of different temperatures. He placed them on digital balances at the room temperature of 25°C as shown below.

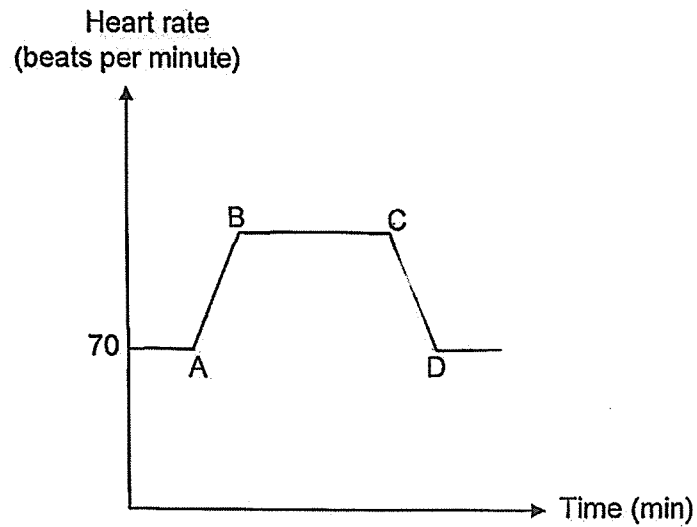


Which of the following shows the possible changes in the mass shown on the digital balance after 15 minutes?

	set-up A	set-up B
(1)	remains the same	remains the same
(2)	remains the same	increases
(3)	increases	remains the same
(4)	decreases	increases

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5. Simone recorded her heart rate before, during and after exercising as shown below.



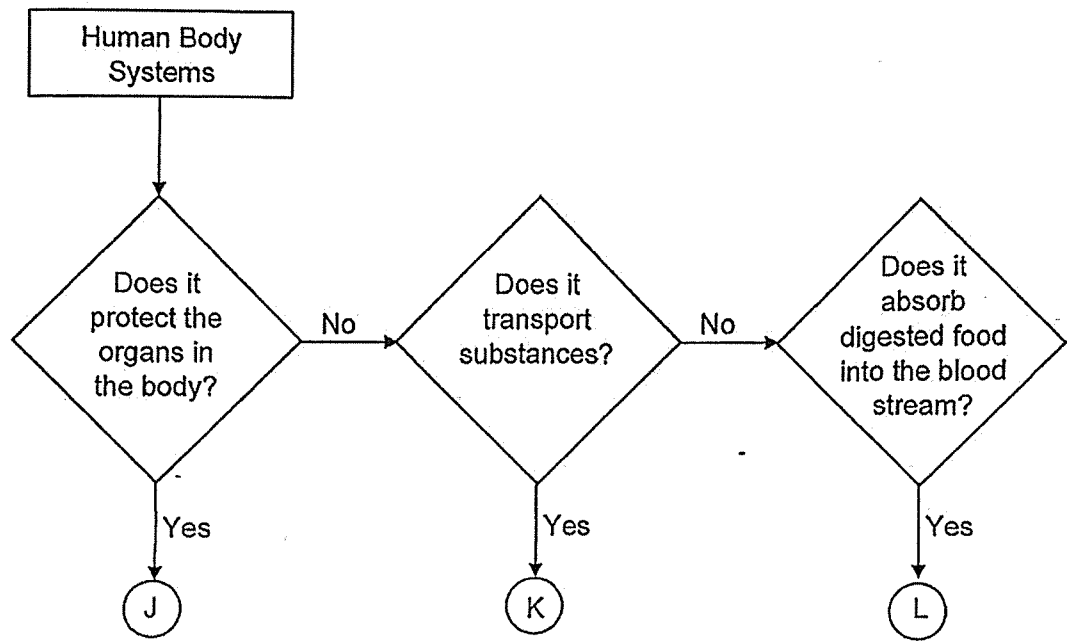
Her heart rate was at 70 beats per minute when she was resting.

At which point of the graph did Simone stop exercising?

- (1) A
- (2) B
- (3) C
- (4) D

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6. Study the flowchart below.

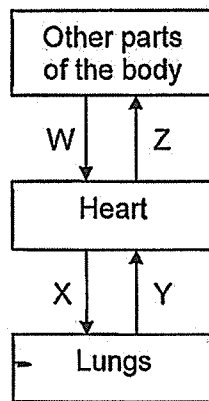


Based on the flowchart above, which systems do J, K and L represent?

	J	K	L
(1)	skeletal	circulatory	digestive
(2)	skeletal	respiratory	digestive
(3)	muscular	respiratory	circulatory
(4)	muscular	digestive	circulatory

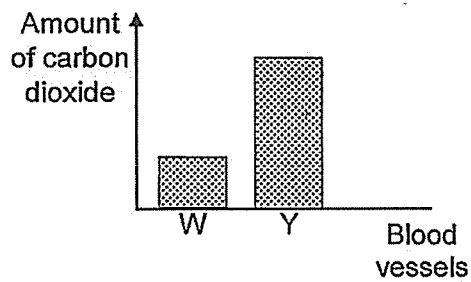
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7. The diagram below shows the direction of blood flow in the blood vessels W, X, Y and Z, in Jatin's body.

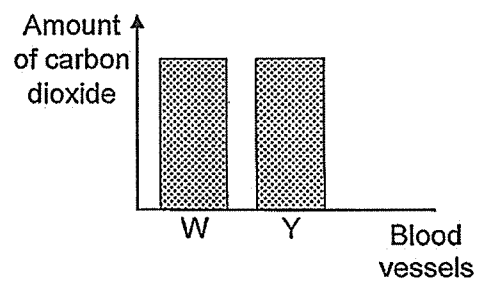


Which graph below shows the amount of carbon dioxide present in the blood flow of blood vessels at W and Y?

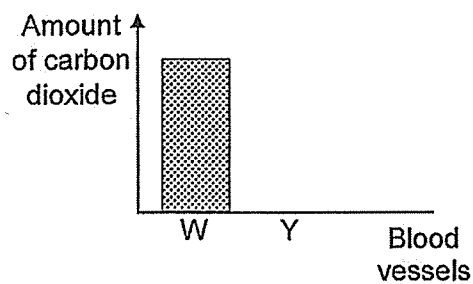
(1)



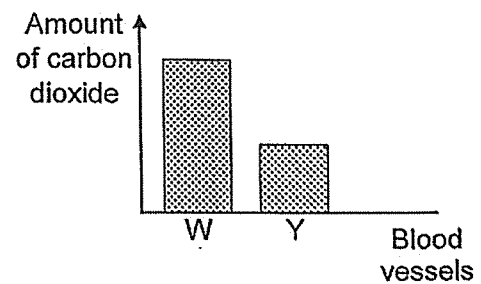
(2)



(3)

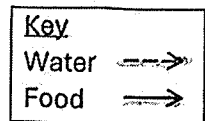
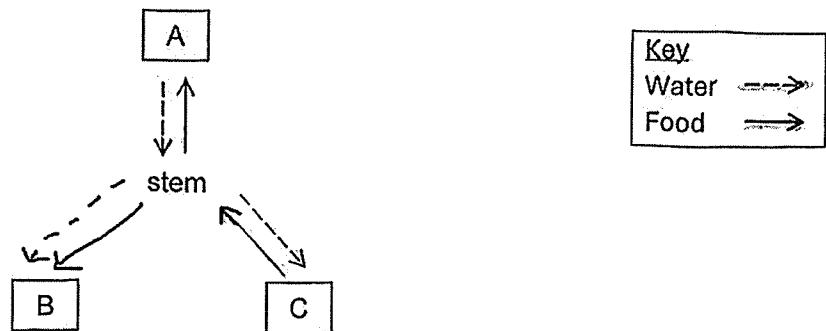


(4)



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8. A, B and C are different parts of a plant. The diagram below shows how water and food are transported in the plant.

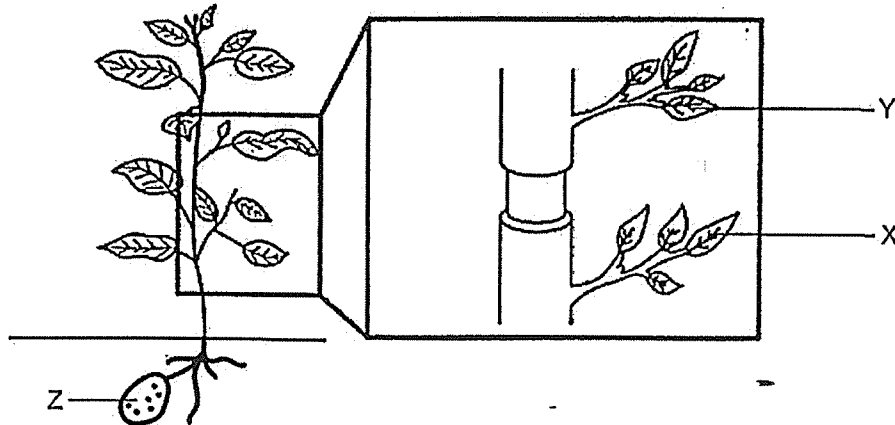


Which of the following correctly shows the parts of the plant?

	A	B	C
(1)	root	leaf	fruit
(2)	leaf	flower	root
(3)	leaf	root	fruit
(4)	root	flower	leaf

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9. The diagram below shows a plant growing in a field. An outer ring of the stem was removed.



It was observed that Z grew bigger after one week. Which of the following statements best explains the observation?

- (1) Food is made by Z itself.
- (2) Food is transported from X to Z.
- (3) Food is transported from Y to Z.
- (4) Food is absorbed by Z from the soil.

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End of Section A

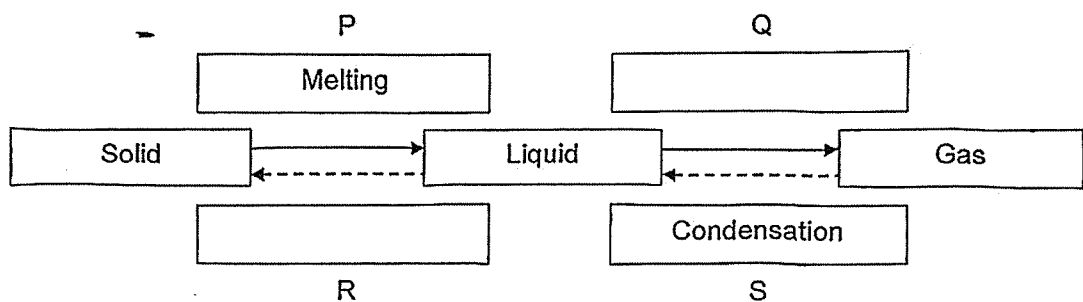
Section B (12 marks)

For questions 10 to 14, write your answers clearly.

The number of marks available is shown in brackets [] at the end of each question or part question.

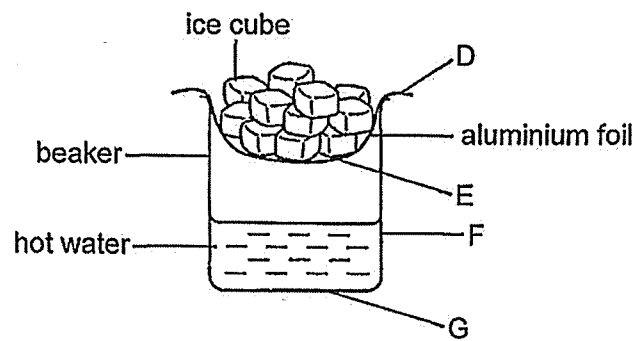
10. The diagram below shows the different states of water.

(a) Fill in the missing blanks for the processes, Q and R. [1]



(b) State which two processes, P, Q, R or S, involve a heat loss. [1]

11. Joyce set up an experiment as shown in the diagram below. After a while, Joyce noticed that some water droplets were formed.

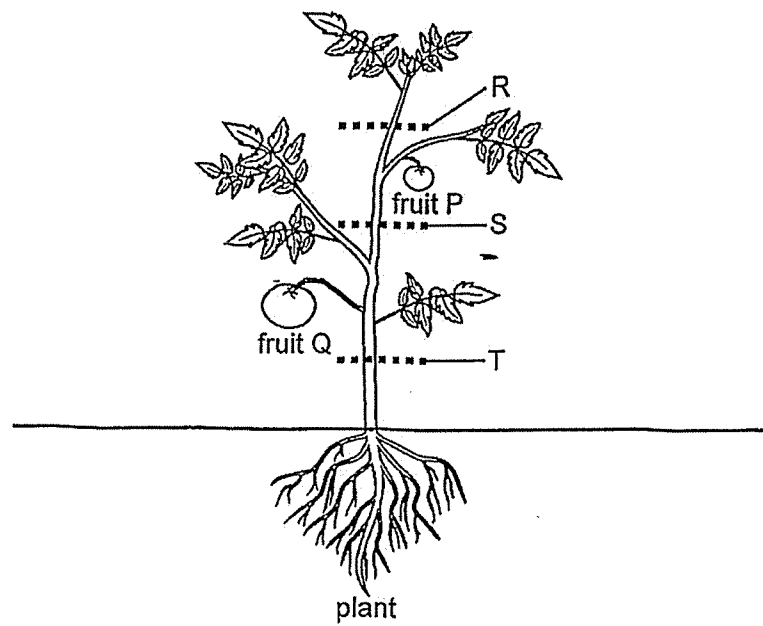


- (a) In the diagram above, at which point, D, E, F or G, would the water droplets be formed? [1]

- (b) Explain how the water droplets were formed. [2]

12. A farmer removed the food-carrying tubes of a plant, at positions, R, S and T, at the time when fruit P and Q were developing. Both fruits were of the same size.

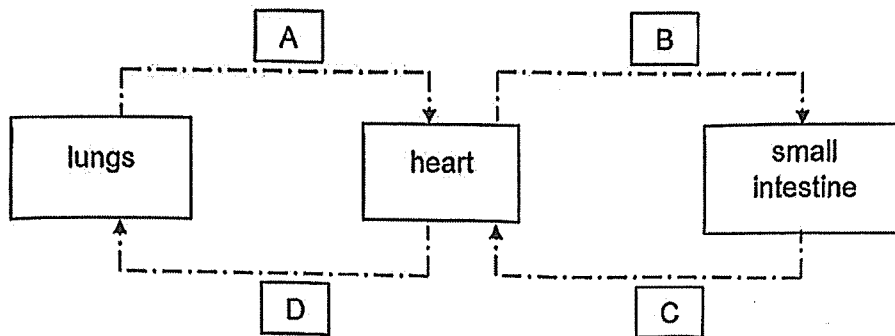
After three weeks, the farmer observed the following as shown in the diagram below.



Explain why fruit Q grew bigger than fruit P.

[2]

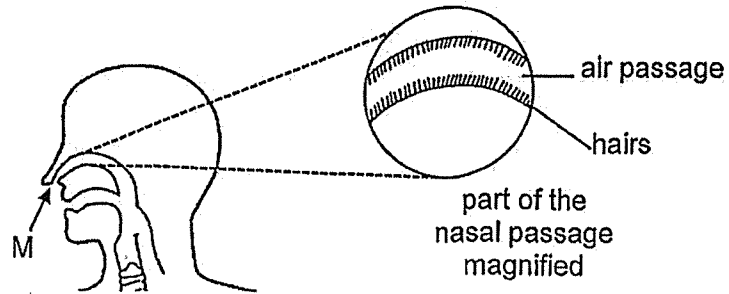
13. The diagram below shows how blood is transported in the human body.



(a) Name all the parts in the human circulatory system. [1]

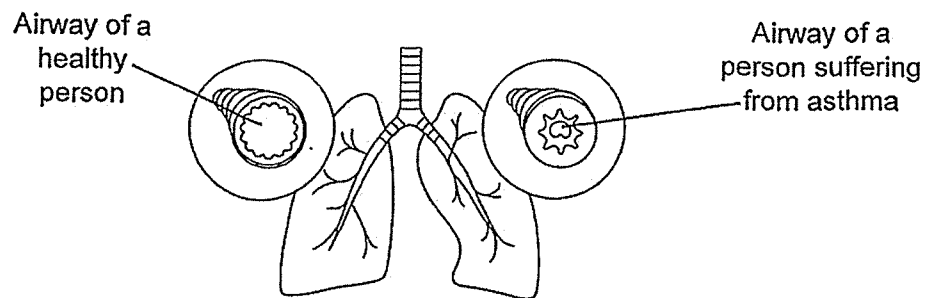
(b) Compare the amount of oxygen in blood vessel A with blood vessel C. [1]

14. The diagram below shows air entering the human respiratory system through the nose and travelling through the nasal passage.



- (a) Give a reason how the hairs shown above will benefit a human respiratory system. [1]

The diagram below shows how the airways in the lungs look like in a healthy person as compared to an asthmatic person.



- (b) During an asthma attack, will a person need to breathe faster or slower? Explain why. [2]

End of Section B

SCHOOL : TAO NAN PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : SCIENCE
TERM : 2025 WEIGHTED ASSESSMENT 2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	
2	3	2	2	3	1	4	4	2	

10	a) Q: Evaporation R: Freezing b) R and S
11	a) E b) The hot water evaporated to form hot water vapour which touched the cool surface of the aluminium foil and condensed into water droplets.
12	There were more leaves near Q than P to make food, so more food made by the leaves be transported to Q. Food was not able to be transported below the cut, so food made by the leaves would be stored in fruit Q, so fruit Q grew bigger than fruit P.
13	a) Heart, blood and blood vessels. b) The amount of oxygen in blood vessel A is higher than the amount of oxygen in blood vessel C.
14	a) The hairs shown above would help clean the air as dust would stick on the hairs, so the air taken in would be cleaner. b) A person would need to breathe in faster for enough oxygen to be transported to the lungs through the airways to be absorbed into the blood and to be pumped by the heart to all parts of the body to produce enough energy for the body to do life processes and for enough carbon dioxide to be transported out of the airway as the airway is swollen so less oxygen would be able to pass through, so a person would need to breathe faster.

