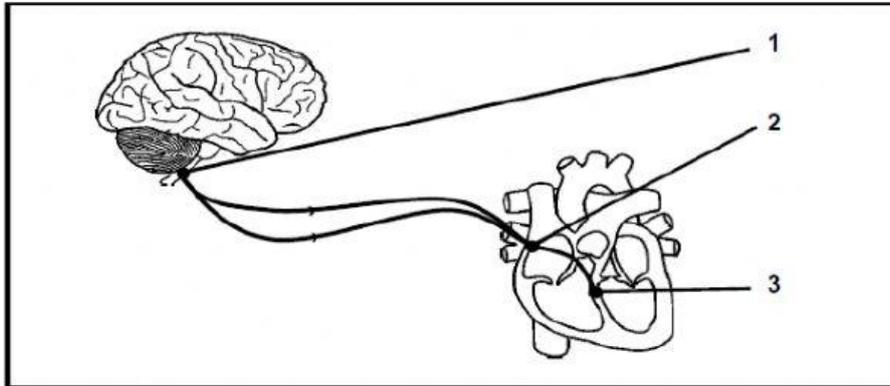


**SECTION B**

**QUESTION 2**

2.1 The diagram below shows the brain and the heart.

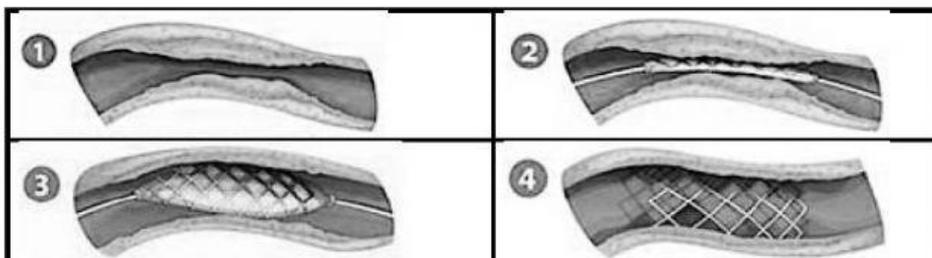


2.1.1 Name the TWO patches of tissues, 2 and 3, that help control the heart rate. (2)

2.1.2 Where in the heart is part 3 located? (2)

2.1.3 Explain how part 1, 2 and 3 functions together to increase heart rate. (4)

The diagram below shows four steps of an operation to insert a wire cage into a blocked artery.



2.1.4 What causes arteries to block? (1)

2.1.5 What is the wire cage called? (1)

2.1.6 Explain how the wire cage helps a person with a blocked artery. (2)

2.1.7 Name THREE things people can do to help prevent blockages in their blood vessels. (3)

2.2 Study the list of organisms below which may be found in the thicket biome.

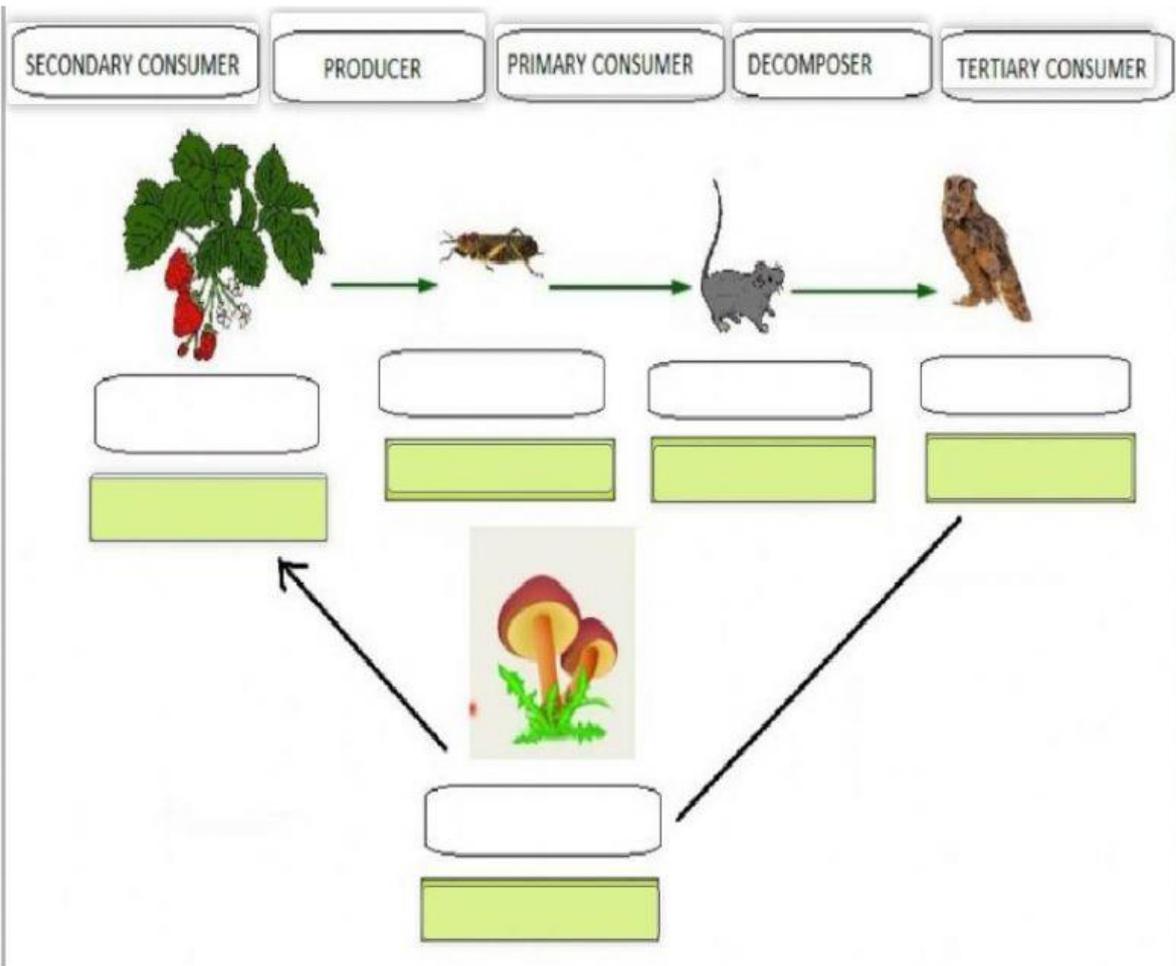
|  |
|--|
| grass; kudu; locust; aloe; sunbird; lizard;<br>Adder (snake); spekboom; hawk |
|--|

2.2.1 What is a *biome*? (2)

2.2.2 Identify TWO producers from the list above. (2)

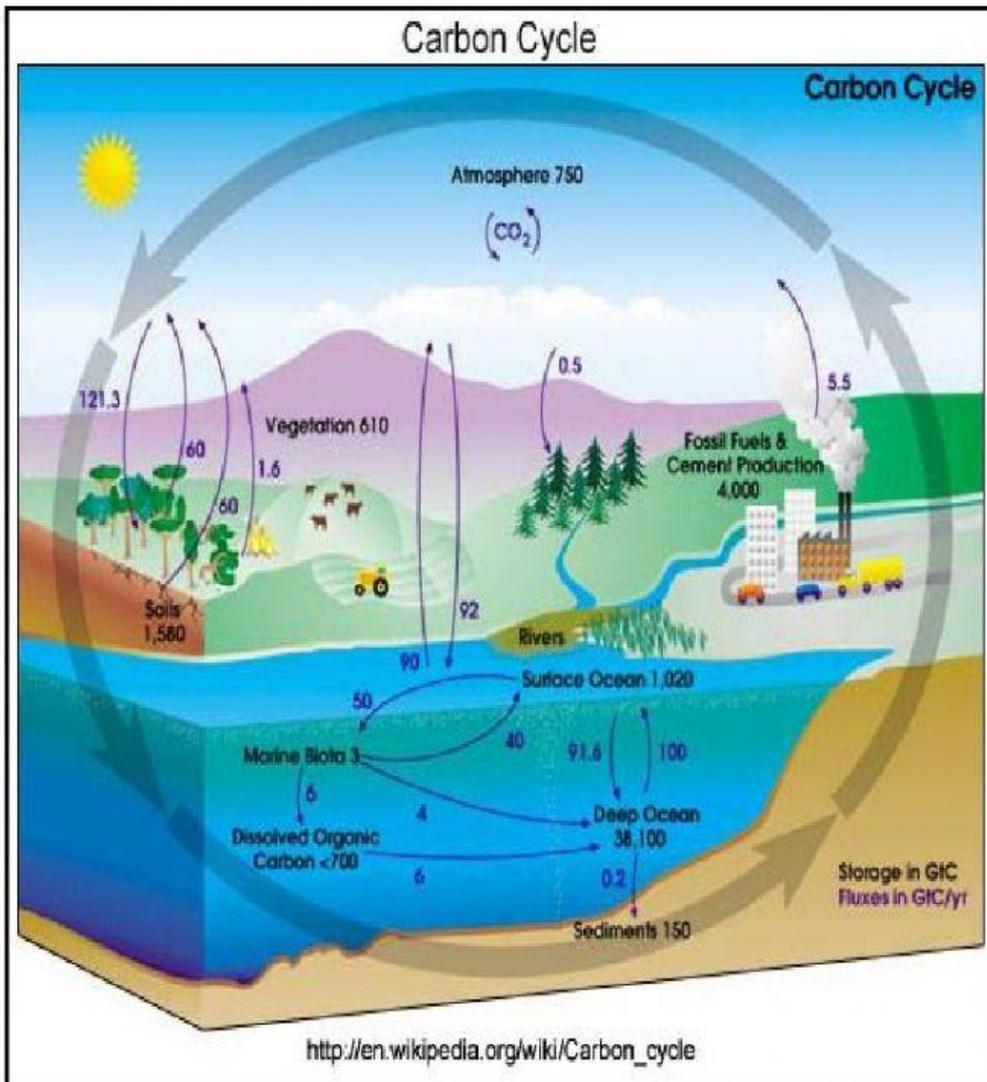
2.2.3 Identify ONE primary consumer from the list above. (1)

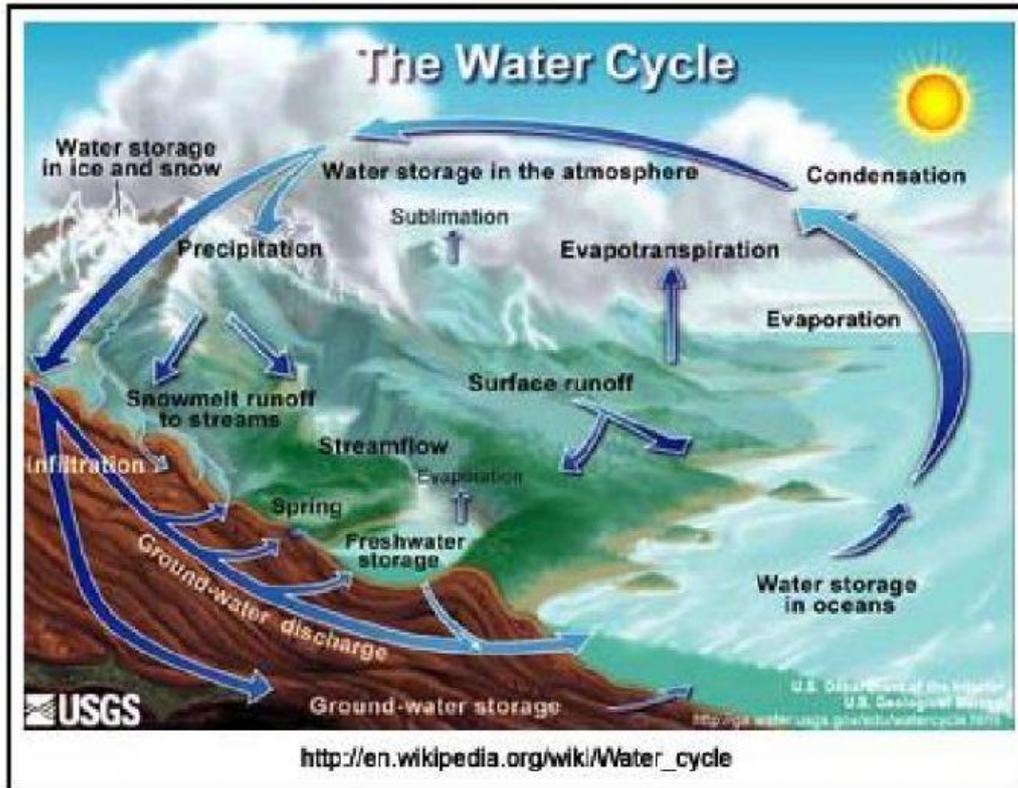
2.2.4 Identify ONE tertiary consumer from the list above. (1)



Put the elements of the food chain in the correct place. Then, write below (in the green boxes) the names of each living thing:

# Carbon Cycle





rs

2.3.1 Name the process of removing nitrogen from the atmosphere :

2.3.2 In which form is nitrogen absorbed by plants out of the ground

2.3.3 Explain into your own word how you understand the water cycle.

2.3.4 Explain into your own word how you understand the carbon/ nitrogen cycle

2.3.5 How does the nitrogen cycle have an impact on your ground water and atmosphere? .