

This practice test is designed to help you determine what concepts you DO know and more importantly what concepts you DO NOT know!

Go through the practice test THREE times:

(1) On your own (2) With your notes (3) With another student



Each time, if you cannot answer a question, draw a circle around it to identify that you should review this concept when preparing for the test.

Multiple Choice: Choose the BEST answer (1 mark each)

- _____ 1. Which of the following is an abiotic part of an ecosystem?

a. Pill bug	c. Spider
b. Sun	d. Cacti

- _____ 2. An ecosystem is able to support a maximum of 100 organisms. What is this idea describing?

a. Limiting factors	c. Small population
b. Carrying capacity	d. Lack of resources

- _____ 3. Which wind pattern is responsible for the prevailing winds across North America?

a. Trade winds	c. Polar easterlies
b. Great ocean conveyor belt	d. Westerlies

- _____ 4. Which of the following is a biotic part of the ecosystem?

a. Soil	c. Water
b. pH	d. Pill bug

- _____ 5. Gases that absorb solar energy in Earth's atmosphere is called...

a. Greenhouse effect	c. Solar energy
b. Greenhouse gas	d. Coriolis effect

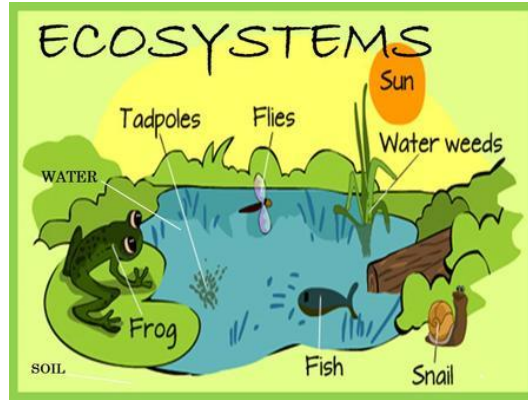
- _____ 6. Process that absorbs the outgoing solar energy in Earth's atmosphere

a. Greenhouse effect	c. Solar energy
b. Greenhouse gas	d. Coriolis effect

Short Answer:

1. List each of **earth's 4 spheres**, along with **2 examples** of things from each (4 marks)

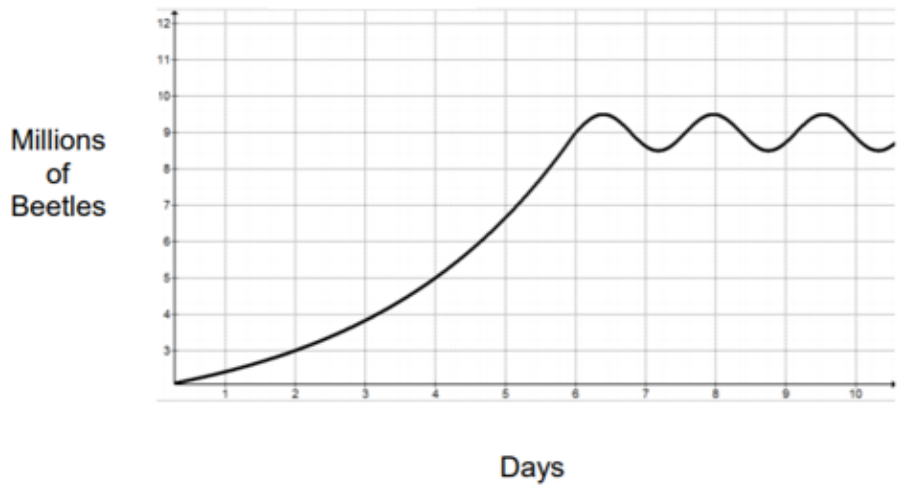
2. In the following diagram, find 3 abiotic and 3 biotic factors in the ecosystem: (3 marks)



Abiotic	Biotic

3. How are limiting factors related to carrying capacity? (1 mark)

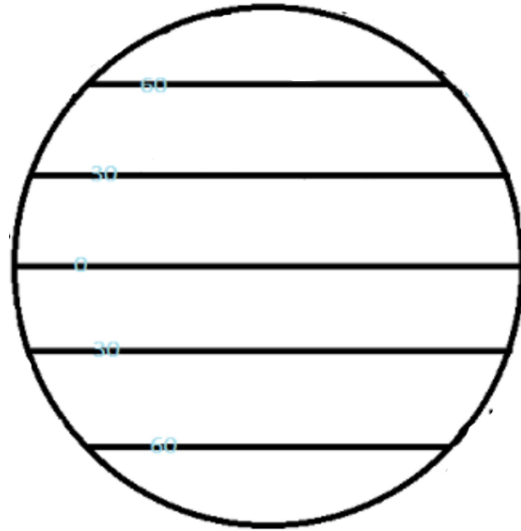
4. Draw a line in the graph to represent the carrying capacity. (1 mark)



a. What is the carrying capacity in this population of beetles? (1 mark)

b. If the population continues to exceed the carrying capacity, what may happen over time? Be sure to explain your response. (2 marks)

5. Identify and label the major wind systems that are on Earth: (3 marks)



6. What causes the direction and motion of the winds to occur? (1 mark)

7. How are ocean currents and winds related? (1 mark)

8. What major things does the Great Ocean Conveyer Belt transport around the Earth? (1 mark)