**Chapter 13 Review Questions**

1. What is the intertidal zone?
2. Where do rocky shores usually occur?
3. What is a challenge that organisms in the intertidal face as a result of exposure at low tide?
4. What is vertical zonation?
5. What are the three zones of the rocky intertidal?
6. Define the term “infauna”.
7. Define the term “interstitial”.
8. What is the term used to describe sediments with absolutely no oxygen.

**Ecology – Interactions, Energy, Nutrients, and Change in the Intertidal Community**

1. Define the following terms:

* Ecology – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Biodiversity – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

“Biotic” means \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. An example of a biotic feature on an ecosystem is \_\_\_\_\_\_\_\_\_\_\_.

“Abiotic” means \_\_\_\_\_\_\_\_\_\_\_\_\_\_. An example of an abiotic feature on an ecosystem is \_\_\_\_\_\_\_\_\_.

WORD BANK

|  |
| --- |
| mussels whelks pH  water sunlight sea stars  phytoplankton temperature rocks  zooplankton turbidity (water clarity) sea urchins  octopus sand barnacles  dissolved oxygen anemones bacteria  crabs kelp |

2. Correctly categorize each of the terms above by writing them in one of the columns below.

|  |  |
| --- | --- |
| **Biotic** | **Abiotic** |
|  |  |

3. Match the bolded terms below to the correct definition:

a. organism that feeds on plant and animal remains and other dead matter.

b. organism that uses the sun’s energy to produce food from inorganic compounds; also called autotrophs.

c. organism that breaks down and obtains energy from dead organic matter.

d. organism that relies on other organisms for its energy and food supply; also called a heterotroph.

**\_\_\_\_ Producer**

**\_\_\_\_ Consumer**

**\_\_\_\_ Decomposer**

**\_\_\_\_ Detritivore**

4. In the word bank above, write a “P” next to a producer, a “C” next to a consumer, a “DCP” next to a

decomposer, and “DE” next to a detritivore.

5. Explain the importance of producers in an ecosystem.

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6. Predict what would happen in a food web if an environmental toxin or contaminate caused a large number of the algae to die off in an ecosystem.

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7. Suppose that Sea Stars have become a delicacy at many sea food restaurants and the emerging demand for the creature has not yet been regulated or limited by the U.S. Fish and Wildlife Service. Predict two possible outcomes in tide pool ecosystems that could result from people removing too many Sea Stars.

Outcome 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Outcome 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_