**Interactions Within and Between Communities**

**Populations vs Communities**

Each item below describes a population, community, or neither. In the blank before each item, write “P” if the item describes a population. Write “C” if the item describes a community. Write “N” if the item describes neither.

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| 1. \_\_\_\_\_\_ | All the plants and animals found in a pond ecosystem |
| 1. \_\_\_\_\_\_ | All the people, plants, and animals living in Gilbert, AZ |
| 1. \_\_\_\_\_\_ | All the finback whales alive in the world today |
| 1. \_\_\_\_\_\_ | A particular species of cactus found in the Sonoran Desert |
| 1. \_\_\_\_\_\_ | A particular species of bass found in a lake in upstate New York |
| 1. \_\_\_\_\_\_ | All the squirrels, chipmunks, and gophers found in Yosemite National Park |
| 1. \_\_\_\_\_\_ | All the humans living in Gilbert, AZ |
| 1. \_\_\_\_\_\_ | All the living things found at the bottom of the ocean near the Mariana Trench |
| 1. \_\_\_\_\_\_ | All the oysters and clams found in the ocean off the coast of Mexico |
| 1. \_\_\_\_\_\_ | All the animals, plants, water, rocks, and precipitation in Gilbert, AZ |
| 1. \_\_\_\_\_\_ | All the bass, trout, and snails found in Saguaro Lake |
| 1. \_\_\_\_\_\_ | All the bull kelp found off the coast of San Diego |
| 1. \_\_\_\_\_\_ | All of the sea grasses world wide |
| 1. \_\_\_\_\_\_ | All the palm trees, mesquite trees, and soil found in Arizona |
| 1. \_\_\_\_\_\_ | All of the orcas found near the coast of California |

**Symbiosis**

Each of the following situations describes a form of symbiosis. If the situation describes parasitism, write a “P” on the line provided. If it describes commensalism, write a “C” on the line. If it describes mutualism, write an “M” on the line.

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| 1. \_\_\_\_\_\_ | A flowering plant cannot pollinate another plant unless pollen is transported between the plants. While gathering nectar from the plant’s flowers, a bee is lightly dusted with pollen. The bee then transports pollen as it moves from one flower to another. This enables the flowering plant to reproduce. |
| 1. \_\_\_\_\_\_ | A liver fluke enters the human digestive system from a piece of beef. The fluke derives nourishment from the human. The human is seriously weakened by the presence of the fluke. |
| 1. \_\_\_\_\_\_ | A fungus that cannot make its own food absorbs sugars and other nutrients from plant roots. The fungus also absorbs certain minerals from the soil that can be used by the plant (the plant has difficulty obtaining these minerals buy itself). |
| 1. \_\_\_\_\_\_ | Tall trees provide birds with a place to nest that offers them protection against many kinds of predators. The tree receives nothing in return. |
| 1. \_\_\_\_\_\_ | A blind human is able to move about safely with the help of a guide dog. The human provides the dog with food, shelter, and medical care. |
| 1. \_\_\_\_\_\_ | A clown fish lives within an anemone. The anemone provides food for the clown fish. |
| 1. \_\_\_\_\_\_ | The Remora fish swims along under a shark. In doing so, the remora fish is provided with protection. |
| 1. \_\_\_\_\_\_ | Tapeworms can live within the digestive tract of humans. The tapeworms feed off the nutrients that are taken in by humans. This can cause health issues in humans. |