Name:_____ Class: _____ Date: _____

Biology in the 21st Century — WU: Diagnostic Test

Choose the letter of the best answer.

_____ 1. When we eat, we take in energy that came originally from
a. sunlight.
b. water.
c. oxygen.
d. bacteria.

_____ 2. Which statement about living things is supported by Figure 1.1?

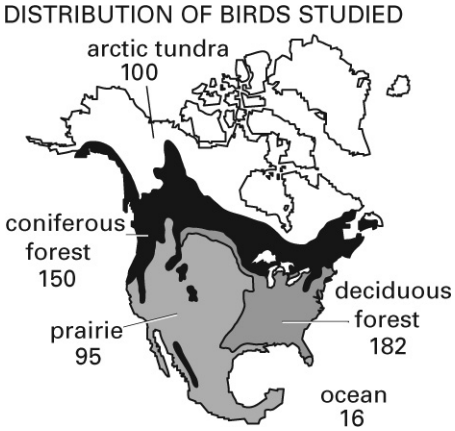

FIG. 1.1

a. They are found within close range of water.
b. They are found only in restricted areas.
c. They are found in a great variety of environments.
d. They are found where climate conditions are steady.

_____ 3. In what types of living things must groups of cells work together?
a. viruses
b. unicellular life
c. multicellular life
d. bacteria

_____ 4. Cells make up all living things. They can be seen only if they are
a. moving.
b. flat.
c. dyed.
d. magnified.

_____ 5. The structure of a human skin cell differs from that of a human muscle cell. The two cells most likely have different
a. ways of dividing.
b. genes.
c. functions.
d. life processes.

_____ 6. The data shown in Figure 1.2 might support which of these hypotheses?

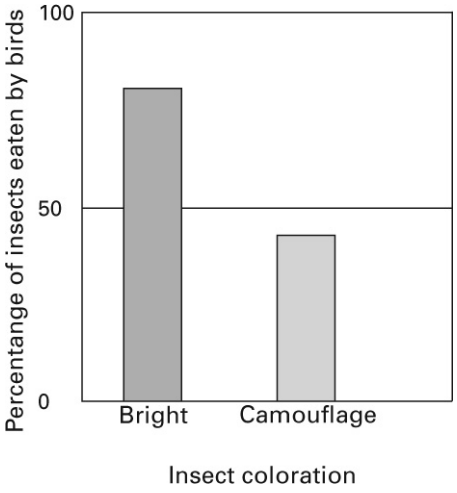

FIG. 1.2

a. Brightly colored insects are harder for birds to catch.
b. Insects can hide to avoid bird predators.
c. Birds choose insects to eat based on their size.
d. Camouflage protects insects from being eaten.

_____ 7. If you repeat an experiment and the results are very different from the results you got the first time, the next step would be to
a. repeat the experiment again.
b. try a different experiment.
c. trust the second results.
d. decide which results are better.

_____ 8. Which of the following would you need in order to compare the effect of two different fertilizers on plant growth?
a. a cardboard box to cover one plant
b. a way to measure plant growth
c. a selection of soil types
d. a variety of plant species

_____ 9. Science is a form of inquiry because scientists trying to understand the world around them start by
a. collecting data.
b. asking questions.
c. forming conclusions.
d. designing experiments.

_____10. Which of the following have biologists most likely studied for hundreds of years?
a. determining the location of new planets
b. isolating atmospheric pollutants
c. breeding successful crop plants
d. describing movements of ocean currents