

DATE:

NAME:

CLASS:

UNIT 1

BLM 1-19

ASSESSMENT

## Unit 1 Test

**Goal** • Demonstrate your understanding of the concepts presented in Unit 1.

### What to Do

Read each question carefully before answering in the space provided. If you work at a steady pace, you should have enough time to finish.

### True or False

In the space provided, indicate whether each statement is true (T) or false (F).

\_\_\_\_\_ 1. In angiosperms, the male gametes are contained by a structure called a pistil.

\_\_\_\_\_

\_\_\_\_\_ 2. Frogs use external fertilization to reproduce.

\_\_\_\_\_

\_\_\_\_\_ 3. Mushrooms are fungi that reproduce by budding.

\_\_\_\_\_

\_\_\_\_\_ 4. Zygospores are asexual reproductive structures produced by the mould *Rhizopus*.

\_\_\_\_\_

\_\_\_\_\_ 5. The life cycle of mosses involves an alternation of sexual and asexual generations.

\_\_\_\_\_

\_\_\_\_\_ 6. The ABO blood group is an example of continuous genetic variation.

\_\_\_\_\_

\_\_\_\_\_ 7. Polydactyly is a recessive genetic trait.

\_\_\_\_\_

\_\_\_\_\_ 8. Genetic mutations are always harmful.

\_\_\_\_\_

\_\_\_\_\_ 9. Mutations in somatic cells are heritable.

\_\_\_\_\_

\_\_\_\_\_ 10. Human gametes have 46 chromosomes.

\_\_\_\_\_

### Fill in the Blanks

Complete each statement with the correct term.

11. Some trees form symbiotic relationships with specialized fungi called \_\_\_\_\_. These fungi help the tree obtain \_\_\_\_\_.

12. The prairie white-fringed orchid is an endangered species. It is considered a \_\_\_\_\_, because it can only be \_\_\_\_\_ by certain types of hawkmoths.

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# Unit 1 Test (continued)

- 13. Bacteria reproduce asexually by \_\_\_\_\_.
- 14. Height in humans shows \_\_\_\_\_ variation.
- 15. Researchers have developed \_\_\_\_\_ crops that are tolerant of herbicides.

### Short Answer

Answer the following questions in the space provided.

- 16. List three organisms (or groups) that reproduce asexually and name the method of reproduction.

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- 17. (a) Define genetic mutation.

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- (b) List three agents that can cause genetic mutations.

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- 18. (a) List three adaptations for life in extreme environments.

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- (b) What might be the advantage of having an adaptation for living in an extreme environment?

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- 19. (a) Compare and contrast artificial selection and natural selection.

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