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).

F

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

T

2. Frogs use external fertilization to reproduce.

F

3. Mushrooms are fungi that reproduce by budding.

F

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.

F

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

F

7. Polydactyly is a recessive genetic trait.

K

8. Genetic mutations are always harmful.

F

9. Mutations in somatic cells are heritable.

F

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 Mycorchizae. These fungi help the tree obtain nutrients.
- 12. The prairie white-fringed orchid is an endangered species. It is considered a <u>specialist</u>, because it can only be <u>pollicated</u> by certain types of hawkmoths.

CLASS: DATE: NAME: **BLM 1-19** UNIT 1 Unit 1 Test (continued) **ASSESSMENT** 13. Bacteria reproduce asexually by binary 14. Height in humans shows <u>Continuous</u> 15. Researchers have developed genetically engineered rops 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. plants/vecetative 17. (a) Define genetic mutation. (b) List three agents that can cause genetic mutations. 18. (a) List three adaptations for life in extreme environments. (b) What might be the advantage of having an adaptation for living in an extreme environment? hardy organisms. 19. (a) Compare and contrast artificial selection and natural selection.

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UNIT 1	
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Unit 1 Test (continued)

BLM 1-19

(b) What are the advantages and disadvantages of owning purebred dogs?
Purebred does have faily consistent characteristics to set
owners can be fairly sure of what their doe will be
like based solely on the freed towever puro bredo
often have sentic conditions that can cause the dog
aliscomfort and are expensive to treat.
(c) From what you have learned in Unit 1, what problems may arise in a small, isolated population of grizzly
bears? There is little of no chance for them to head with
guigglies in other populations. do a result, genetic
diversity in the population well remain law, which
could lead to an occurrence of genetically related
Paragraph Answer
Answer the following question in paragraph form.
20 Describe and bounds of maintaining and houle and add and an analysis Described in
20. Describe some benefits of maintaining seed banks, such as the one run by the Royal Botanic Gardens in England.
Seed banks store reeds have plate that may be
threatened with extinction. It is one method
of measuring the sanctic divine it of short I the
lette de site de Milet de Adams for me
funt occopie marion loss. Jone seed van lo
Chater to gardenero looking unusual of specialized
plants to gion; others are used for albearch
purposes.