

CHAPTER REVIEW

Chapter 9

Animal Life

I. Vocabulary Review

Match each item in Column I with the most appropriate item in Column II. Write the letter for that item in the blank at the left.

- | Column I | Column II |
|--|--------------------------------|
| _____ 1. process in which the sperm and egg are united | a. adaptation |
| _____ 2. changes in form that some animals undergo in their life cycles | b. exoskeleton |
| _____ 3. support system outside the body | c. metamorphosis |
| _____ 4. support system within an animal's body | d. digestion |
| _____ 5. the process of breaking down food | e. invertebrate |
| _____ 6. any animal without a backbone | f. cellular respiration |
| _____ 7. any characteristic that increases an organism's chance of survival | g. endoskeleton |
| _____ 8. process within cell where oxygen combines with food to release energy | h. fertilization |

II. Concept Review

If the underscored word or phrase makes the sentence true, write "TRUE" in the space provided. If the underscored word or phrase makes the sentence false, write the correct term or phrase in the space provided.

- _____ 9. The caterpillar is the pupal form of the butterfly.
- _____ 10. Dolphins and whales primarily use sight and smell to find food.
- _____ 11. Enzymes are an example of the mechanical system that aids digestion.
- _____ 12. Budding is a form of regeneration.
- _____ 13. Behavioral adaptations, such as barking and hissing, enable animals to communicate.
- _____ 14. Adaptations for breathing include skin, lungs, and openings in the sides of an insect's body.

In the blank at the left, write the letter of the choice that best completes the statement or answers the question.

- _____ 15. The cat exhibits what type of body plan?
- | | |
|------------------------------|--------------------------------|
| a. bilateral symmetry | c. pentaradial symmetry |
| b. radial symmetry | d. asymmetry |

Chapter Review 9 (continued)

- _____ **16.** Metamorphosis in frogs and in insects is governed by _____.
a. daylength and seasonal changes **c.** hormones
b. enzymes **d.** metabolism
- _____ **17.** An adaptation that aids flight in birds is _____.
a. large eyes **b.** protective color **c.** a strong beak **d.** hollow bones
- _____ **18.** All of the following are vertebrates EXCEPT _____.
a. human **b.** fish **c.** spider **d.** bird

III. Skills/Process Review

Answer the following questions in the spaces provided.

- 19.** Sequence the four stages in complete metamorphosis.

_____ larva _____ eggs _____ adult _____ pupa

Responses			
Conditions	Worm A	Worm B	Worm C
Light	-	0	-
Touch	-	0	-
Vinegar	-	0	-
Organic matter	0	0	+

- 20.** The table above gives the data from an experiment in which you observed the responses of three worms to different environmental conditions. Responses are indicated by +, -, or 0 to show movement toward, movement away from, or no movement in relation to the stimulus.

Summarize the data. _____

- 21.** From the data in the table, infer why the worms moved away from the same stimuli. What might explain the results from worm B? _____

IV. EYV Review

- 22. Science and Society: Animal Rights vs. Human Needs** Defend the statement: "Zoos should be supported." _____
