

**SECTION 40-2 REVIEW**

# INVERTEBRATE CHORDATES

**VOCABULARY REVIEW** Define the following terms.

1. notochord \_\_\_\_\_  
\_\_\_\_\_
2. pharyngeal pouch \_\_\_\_\_  
\_\_\_\_\_
3. lancelet \_\_\_\_\_  
\_\_\_\_\_
4. atriopore \_\_\_\_\_  
\_\_\_\_\_
5. tunicate \_\_\_\_\_  
\_\_\_\_\_

**MULTIPLE CHOICE** Write the correct letter in the blank.

- \_\_\_\_\_ 1. In most chordates, the function of the notochord is taken over by the  
 a. vertebral column.    b. brain.    c. spinal cord.    d. pharynx.
- \_\_\_\_\_ 2. The gill chambers of aquatic chordates evolved from the  
 a. dorsal nerve cord.    c. pharyngeal pouches.  
 b. backbone.    d. postanal tail.
- \_\_\_\_\_ 3. Animals in the subphyla Cephalochordata and Urochordata live  
 a. only in fresh water.    c. only on land.  
 b. only in the ocean.    d. in fresh water, in the ocean, and on land.
- \_\_\_\_\_ 4. A lancelet feeds by  
 a. pursuing and capturing small animals with its tentacles.  
 b. sucking blood from the skin of a larger animal.  
 c. digesting nutrients contained in the bottom sediments it swallows.  
 d. filtering food particles from the water that passes through its pharynx.
- \_\_\_\_\_ 5. Unlike adult lancelets, adult tunicates  
 a. have segmented muscles in their tail.    c. are usually sessile.  
 b. are radially symmetrical.    d. have separate sexes.

**SHORT ANSWER** Answer the questions in the space provided.

1. List the chordate characteristics that lancelets have as adults. \_\_\_\_\_  
\_\_\_\_\_
2. How do lancelets use their tail? \_\_\_\_\_  
\_\_\_\_\_
3. How did tunicates receive their name? \_\_\_\_\_  
\_\_\_\_\_
4. What behavior do tunicates exhibit when touched? \_\_\_\_\_  
\_\_\_\_\_
5. How does the structure of a larval tunicate differ from that of an adult tunicate? \_\_\_\_\_  
\_\_\_\_\_
6. **Critical Thinking** How are most adult tunicates similar to sponges, and how are they different from sponges? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**STRUCTURES AND FUNCTIONS** Identify the structures labeled *a–f* in the diagram of a lancelet shown below.

