**Annelids** (p. 651 – 656)

**I. The First Segmented Animals**

**1.** **Earthworms are members of the phylum \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**2. What type of worms are annelids?**

Circle One : Acoelomates Coelomates Pseudocoelomates

**3. Where do two-thirds of annelid species live? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4. What is the size range of annelids? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5. What is the defining characteristic of annelids?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6. Circle the letter of each organ located in annelid segments.**

a. Digestive

b. Excretory

c. Circulatory

d. Muscular

**7. Which type of circulatory system do annelids possess?**

Circle One : Open Circulatory System Closed Circulatory System

**8. Match the earthworm anatomical terms with the correct definitions.** *(Up Close p. 655)*

1. \_\_\_\_\_\_\_\_ Cerebral Ganglion A. Stores food for digestion.

2. \_\_\_\_\_\_\_\_ Ventral Nerve Cord B. Connects segments to cerebral ganglion.

3. \_\_\_\_\_\_\_\_ Septum C. Muscular part that draws soil into the mouth.

4. \_\_\_\_\_\_\_\_ Setae D. Transmits blood; run dorsal & ventral lengths.

5. \_\_\_\_\_\_\_\_ Clitellum E. Internal wall separating segments.

6. \_\_\_\_\_\_\_\_ Pharynx F. Thickened glandular ring; secretes a mucous ring.

7. \_\_\_\_\_\_\_\_ Esophagus G. Excretory structure that eliminates wastes.

8. \_\_\_\_\_\_\_\_ Crop H. Connects the pharynx to the crop.

9. \_\_\_\_\_\_\_\_ Gizzard I. Tiny external bristles located on each segment.

10. \_\_\_\_\_\_\_\_ Aortic Arches J. Thick, muscular structure that grinds up soil.

11. \_\_\_\_\_\_\_\_ Blood Vessels K. Primitive brain located in the anterior end.

12. \_\_\_\_\_\_\_\_ Nephredia L. Set of 5 thickened muscles that pump blood.

**9. Define the term parapodia.**

Parapodia –

**II. Annelid Groups**

**1. What type of annelids belong to the Class Polychaeta?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2. Polychaetes are the largest group of annelids.**

Circle One : True False

**3. Which type of environments do polychaetes inhabit? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4. How are parapodia useful to polychaetes?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5. List three types of polychaetes.**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6.** **What type of annelids belong to the Class Oligochaeta?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**7. Circle the letter of the sentence that is false concerning earthworms.**

a. Earthworms lack parapodia, a distinctive head region, and eyes.

b. They do not have setae.

c. An earthworm is sensitive to light and touch.

d. As earthworms burrow through soil, they aerate and fertilize the soil.

**8. Which type of skeleton do earthworms possess?**

Circle One : Endoskeleton Exoskeleton Hydrostatic Skeleton

**9. What are the two major groups of body muscles in earthworms called?**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**10.** **What type of annelids belong to the Class Hirudinea?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**11. Circle the letter of each sentence that is true about leeches.**

a. They suck blood and body fluids from their hosts.

b. Leeches have many setae and parapodia.

c. They are typically external parasites.

d. Leeches have been used to perform microsurgery.