

# Structure and Function in Living Systems

Name:

## Organ Systems

Period:

Use Chapter 15, Section 1 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them.

organ organ organ organ system tissue tissue

### Tissues Form Organs (p.468)

1. An \_\_\_\_\_ is made of a group of tissues that work together.
2. Look at Figure 3. Your stomach is made of 4 different types of \_\_\_\_\_, so your stomach must be an \_\_\_\_\_.
3. An organ can do jobs that a \_\_\_\_\_ cannot do on its own.



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### Organs Form Organ Systems

4. Organs that work together are part of an \_\_\_\_\_.
5. An organ system can do jobs that an \_\_\_\_\_ cannot do on its own.

Match the correct description with the correct term. Write the letter in the space provided.

- |   |                               |
|---|-------------------------------|
| _____ 6. includes the heart, blood, and blood vessels           | a. cardiovascular system      |
| _____ 7. takes wastes out of blood                              | b. endocrine system           |
| _____ 8. sends chemical messages                                | c. integumentary system       |
| _____ 9. includes skin, hair, and nails                         | d. urinary system             |
| _____ 10. makes sperm   | e. skeletal system            |
| _____ 11. holds up and protects parts of the body               | f. lymphatic system           |
| _____ 12. gets rid of bacteria and viruses                      | g. male reproductive system   |
| _____ 13. takes oxygen from the air and releases carbon dioxide | h. respiratory system         |
| _____ 14. breaks down food into substances the body can use     | i. female reproductive system |
| _____ 15. helps the body move                                   | j. digestive system           |
| _____ 16. protects the fetus                                    | k. nervous system             |
| _____ 17. sends and receives electrical messages                | l. muscular system            |

**turn over for more questions**

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cardiovascular    homeostasis    life    pancreas    respiratory

#### Organ Systems Working Together (p.470)

18. Your \_\_\_\_\_ system and your \_\_\_\_\_ system work together to get gases in and out of your body.

\_\_\_\_\_ 19. How do the cardiovascular and respiratory systems help maintain homeostasis?

- a. They digest food.
- b. They carry oxygen to cells and get rid of carbon dioxide.
- c. They store wastes.
- d. They include the stomach.

#### Interdependence of Organ Systems

20. Your \_\_\_\_\_ is an organ that makes fluids that you use to digest things.

\_\_\_\_\_ 21. In which pair of organ systems does the pancreas perform functions?

- a. respiratory and cardiovascular
- b. digestive and endocrine
- c. nervous and skeletal
- d. nervous and integumentary

#### When Systems Fail (p.471)

22. If your body keeps its organ systems working together and functioning, your body is able to maintain \_\_\_\_\_.

\_\_\_\_\_ 23. What is likely to occur if one organ system fails?

- a. Other organ systems will function normally.
- b. Other organ systems will fix the failed system.
- c. The entire organism is affected.
- d. The entire organism is largely unaffected.

24. All of the processes for \_\_\_\_\_ are divided up between your body's organ systems.

\_\_\_\_\_ 25. Which statement below is true?

- a. any organ system can do the job of any other organ system
- b. some organ systems can do the job of other organ systems
- c. no organ system can do the job of any other organ system