

10 What is another kind of organ system that you could expect to find in a starfish? Explain.

Directions (11-17): Each question is followed by four choices. Decide which choice is the *best* answer. Circle the number of the answer you choose.

- 11 Which of the following lists an organism's levels of organization in order from smallest to largest?
 (1) tissues, cells, organ systems, organs
 (2) cells, organs, tissues, organ systems
 (3) tissues, cells, organs, organ systems
 (4) cells, tissues, organs, organ systems
- 12 What is the function of a plant's vascular tissue?
 (1) transportation
 (2) reproduction
 (3) food production
 (4) waste removal
- 13 Organ systems similar to a human's systems are most likely to be found in a
 (1) maple tree
 (2) horse
 (3) bacterium
 (4) mushroom
- 14 The advantage of having different levels of organization is that they increase an organism's
 (1) efficiency
 (2) size
 (3) intelligence
 (4) habitat
- 15 Bones are part of the human skeletal system. Which level of organization do they represent?
 (1) cells
 (2) tissues
 (3) organs
 (4) organ systems
- 16 Which of the following systems produces the flowers and fruits on a plant?
 (1) root system
 (2) vascular system
 (3) shoot system
 (4) reproductive system
- 17 Which is *not* a function of the water vascular system of a starfish?
 (1) movement
 (2) to catch food
 (3) control center
 (4) to breathe

DIRECTIONS For each question, write your answer in the spaces provided.

1. How are cells, tissues, organs, and organ systems related?

2. What are three organ systems that are found in many green plants?

3. Give two examples of organ systems in animals and describe the function of each.

4. The stomach and intestines are part of the human digestive system. What level of organization do they represent?

5. In fish, water enters and leaves through gills. Oxygen from the water passes through a thin membrane and into the blood stream. Carbon dioxide passes from the blood into the water in the gills. What organ systems are interacting in the fish? Explain.

The digestive system functions in the breakdown of nutrients. The respiratory system is involved in exchanging gases, such as oxygen and carbon dioxide, between the air and the organism's body. The nervous system is an organism's control and communication system. Each organ system in an animal is made up of cells, tissues, and organs. For example, in the human skeletal system, individual bone cells are grouped together to form bone tissue. Bone tissues are grouped together to make up a bone. Each bone is one organ of the skeletal system.

Which organ system carries blood throughout the body?

Guided Questions