Name:		Class:	Date:	_ ID: B
Chapter	14 Study Guide			
Multiple (	C <b>hoice</b> e letter of the choice that bes	t completes the statemen	t or answers the question	
1.	<ul> <li>a. muscle cells can only of</li> <li>b. muscle cells can only of</li> <li>c. it takes two muscles to</li> <li>d. when muscles work in</li> <li>How does exercise help materials</li> <li>a. by decreasing the need</li> </ul>	contract. extend. move a bone in one dire pairs, they tire less quick	kly. s	
3.	The spaces in bones are fill a. blood. b. water.	uce stronger outer memb		
4.	<ul> <li>c. cartilage.</li> <li>d. marrow.</li> <li>A strong connective tissues</li> <li>a. cartilage.</li> <li>b. ligament.</li> <li>c. marrow.</li> </ul>	s that holds movable join	ts together is a	
5.	<ul> <li>d. vertebrae.</li> <li>Which type of muscle tires</li> <li>a. smooth muscle</li> <li>b. breathing muscle</li> <li>c. skeletal muscle</li> <li>d. cardiac muscle</li> </ul>	quickly during exercise?	40	
6.	Exercise is important for ma. prevents muscles from b. helps maintain strengtl c. gives muscles more en d. prevents muscle injurie	becoming tired.  n and flexibility.  ergy.		
7.			nment is kept stable in sp	ite of changes in the external
8.		ne of bone there is a layer	of	

Name	:		ID: B
	9.	What structure directs the activities of a cell?  a. nucleus b. cytoplasm c. cartilage d. cell membrane	
	10.	d. cell membrane  Which type of muscle is found only in the heart?  a. voluntary muscle  b. cardiac muscle  c. smooth muscle  d. soft muscle	
_	11.	<ul> <li>How do pairs of skeletal muscles work together?</li> <li>a. Both muscles contract at the same time.</li> <li>b. Both muscles extend at the same time.</li> <li>c. While one muscle in the pair contracts, the other returns to its original length.</li> <li>d. One muscle in the pair pulls on a bone, while the second muscle pulls on the first muscle.</li> </ul>	
	12.	At the start of 400 m run your body releases adrenaline and carries more oxygen to the body cells is experiencing  a. dermis.  b. melanin.  c. osteoporosis.  d. stress.	. Your body
	13.	The living cells in the epidermis are located  a. above the dead cells.  b. beneath the dead cells.  c. in the fat layer.  d. only around hair follicles.	
	14.	Which of the following is NOT a function of the skeleton?  a. providing shape and support for the body  b. obtaining oxygen  c. protecting internal organs  d. producing blood cells	
	15.	How does the skin help regulate body temperature?  a. by removing wastes from the body  b. by blocking information about the environment  c. by enabling excess heat to escape from the body  d. by allowing body temperature to change when the weather becomes warmer or cooler	
	16.		
_	17.	No matter what the temperature of the air around you, your internal body temperature will be closed.  a. 24°C. b. 37°C. c. 72°C. d. 98°C.	se to

Name:	
18.	Nerves and blood vessels in the skin are located in the a. pores. b. dermis. c. epidermis. d. canals.
19.	By eating dairy products, you are helping to maintain healthy bones because dairy products a. stimulate the growth of new bone.  b. enable nerve tissue to grow in bone.  c. help form the canals in bone.  d. are good sources of calcium.
20.	Messages are carried back and forth between the brain and other parts of the body by a. respiratory tissue. b. nervous tissue. c. the circulatory system. d. digestive tissue.
21.	How does the skin protect the body from disease?  a. by keeping disease-causing microorganisms from entering the body b. by gathering information about the environment c. by increasing body temperature when it is cold d. by supplying water to the body through the pores
22.	
23.	What is the best way to prevent osteoporosis?  a. Exercise regularly and include calcium in your diet.  b. Reduce exercise and add phosphorus to your diet.  c. Eat more green vegetables and red meats.  d. Get plenty of bedrest.
24.	Much of a newborn baby's skeleton is made of a. hard bone. b. soft bone. c. cartilage. d. ligaments.
25.	Which type of human body tissue can contract, or shorten?  a. nerve tissue  b. muscle tissue  c. connective tissue  d. epithelial tissue

ID: B

26. Which organ system makes blood cells?
a. skeletal system

b. nervous system

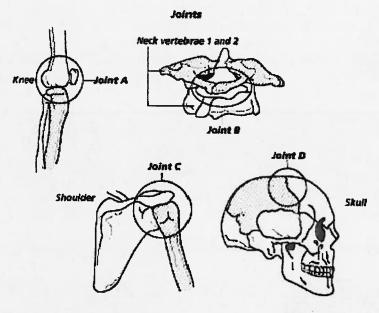
C.

circulatory system digestive system

VAIII	e <b>:</b>		ID: B
	27.	The bones that form the backbone are called a. vertebrae. b. metatarsals. c. tibia. d. carpals.	
	28.	Which type of tissue lines your digestive track and allows you to digest and absorb the nutrients  a. epithelial  b. connective  c. muscle  d. nervous	from food
	pletio	on each sentence or statement.	
	olete e		nd to a
	olete e 29.	each sentence or statement.  . Homeostasis can be upset by, which is the reaction of the body and mi	
	29. 30.	each sentence or statement.  . Homeostasis can be upset by, which is the reaction of the body and mi threatening, challenging, or disturbing event.	
	29. 30. 31.	<ul> <li>each sentence or statement.</li> <li>Homeostasis can be upset by, which is the reaction of the body and mithreatening, challenging, or disturbing event.</li> <li>Bones are strong and hard because they contain the minerals and phospatial phospatial process.</li> </ul>	
	29. 30. 31. 32.	<ul> <li>Homeostasis can be upset by, which is the reaction of the body and mit threatening, challenging, or disturbing event.</li> <li>Bones are strong and hard because they contain the minerals and phose.</li> <li>A muscle is attached to a bone by a connective tissue called a(n)</li> </ul>	
	29. 30. 31. 32. 33.	<ul> <li>each sentence or statement.</li> <li>Homeostasis can be upset by, which is the reaction of the body and mithreatening, challenging, or disturbing event.</li> <li>Bones are strong and hard because they contain the minerals and phost.</li> <li>A muscle is attached to a bone by a connective tissue called a(n)</li> <li>Organs join to form a(n) that performs a major function.</li> </ul>	



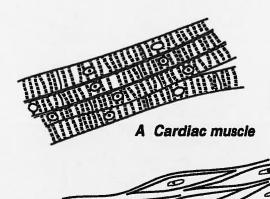
Use the diagram to answer each question.

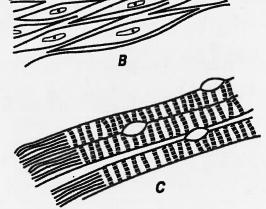


- 36. Which joint is a pivot joint?
- 37. Which joint provides the greatest range of movement?
- 38. Which joints are movable? Which are immovable?
- 39. Which type of joint is Joint C?
- 40. Which type of joint is Joint A?
- 41. What kind of motion does Joint A allow?

Use the diagram to answer each question.

## Types of Muscle Tissue





- 42. Which type of muscle is indicated by C?
- 43. Where in the body is muscle type A (cardiac muscle) found?
- 44. Tell whether each type of muscle tissue is voluntary or involuntary.
- 45. Which type of muscle is indicated by B?
- 46. When you use a pencil for writing, which type of muscle A, B, or C moves your fingers?
- 47. Which type of muscle tissue A, B, or C is found in the stomach? What is this type of muscle tissue called?

## **Essay**

- 48. Explain how shivering and sweating help maintain homeostasis.
- 49. List and describe the four levels of organization of the human body.
- 50. Describe how skin helps maintain body temperature if a person becomes too warm.