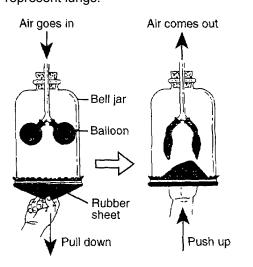


- 14. Impulses originating in the part of the brain called the medulla would most directly affect which body structure?
 - A) the heart
- B) a leg muscle

C) an arm bone D) a ligament

15. When a child runs to his mother after hearing a clap of thunder, the child is using

- A) both the central and the peripheral nervous systems
- B) neither the central nor the peripheral nervous system
- C) the peripheral nervous system, only
- D) the central nervous system, only
- 16. Producing blood cells and providing anchorage sites for muscles are two functions of
 - A) bones
- B) cartilageD) skin
- C) ligaments
- 17. The diagram below represents a demonstration of the breathing process in humans. The balloons represent lungs.



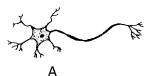
The change in the balloons is brought about by

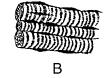
- A) a change in air composition outside the bell jar
- B) an expansion of the balloons, which pulls the rubber sheet into the bell jar
- C) a change in air pressure inside the bell jar
- D) a contraction of the balloons, which forces air into the bell jar

18. Two types of human cells are shown in the diagram below.

Nerve cell

Muscle cells that attach to the skeleton





Cell *A* causes the cells at *B* to contract. This activity would be most useful for

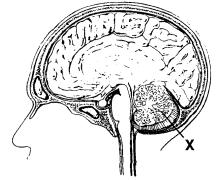
- A) coordinating the functions of organelles
- B) carrying out the process of protein synthesis
- C) digesting food in the small intestine
- D) lifting a book from a bookshelf
- 19. Which two structures are directly involved in locomotion in humans?

A) skeletal muscle and bones

- B) cardiac muscle and immovable joints
- C) visceral muscle and fibrous tendons
- D) smooth muscle and ligaments
- 20. Which statement describes a feedback mechanism involving the human pancreas?
 - A) The production of urine allows for excretion of cell waste.
 - B) The level of sugar in the blood is affected by the amount of insulin in the blood.
 - C) The production of estrogen stimulates the formation of gametes for sexual reproduction.
 - D) The level of oxygen in the blood is related to heart rate.
 - 21. A blind student runs his fingers along a page of braille. Another student reads a page printed in a textbook. Both students are able to obtain and process the information most directly as a result of the activities of the
 - A) sensory neurons and cerebrum
 - B) smooth muscles and medulla
 - C) involuntary muscles and cerebellum
 - D) interneurons and spinal cord
- 22. Which of the following is removed by the excretory system?
 - A) Cells B) Blood
 - C) Excess heat D) Large proteins

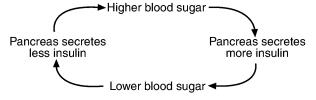
- 23. Which statement best describes the human respiratory system?
 - A) Gases diffuse across membranes on both the external and internal surfaces of the body.
 - B) Each cell of the human body is in direct contact with the external environment, and gas exchange occurs by diffusion.
 - C) The external body surface is kept moist to allow for gas exchange.
 - D) It is composed of a network of moist passageways that permit air to flow from the external environment to the lungs.
- 24. A similarity between the nervous system and the endocrine system in humans is that they both
 - A) maintain homeostasis
 - B) secrete chemicals across synapses
 - C) are composed of glands
 - D) are composed of neurons
- 25. Humans breathe more rapidly during exercise than
 before it because during exercise the blood contains
 - A) a decreased number of red blood cells
 - B) an increased level of oxygen
 - C) an increased level of carbon dioxide
 - D) a decreased amount of hemoglobin

26. The diagram below represents the human brain



The structure labeled X is most directly involved in the

- A) control of breathing and heartbeat
- B) interpretation of sensory impulses
- C) initiation of voluntary actions
- D) maintenance of coordination and balance
- 27. The diagram below shows the interaction between blood sugar levels and pancreatic activity.



This process is an example of

- A) the digestion of sugar by insulin
- B) an immune system responding to prevent disease
- C) the hormonal regulation of gamete production
- D) a feedback mechanism maintaining homeostasis
- 28. Which pair of terms is most closely associated with the human endocrine system?
 - A) digestive glands and enzymes
 - B) ductless glands and hormones
 - C) neurons and neurotransmitters
 - D) receptors and effecters

Answer Key

Chaps 11 12 13 14 15 16 Quiz

1.	в
2.	Α
3.	С
4.	Α
5.	Α
6.	С
7.	С
8.	Α
9.	С
10.	С
11.	D
12.	D
13.	D
14.	<u>A</u>
15.	<u>A</u>
16.	<u>A</u>
17.	<u> </u>
18.	_D_
19.	<u>A</u>
20.	B
21.	<u>A</u>
22.	<u> </u>
23.	D
24.	Α
25.	С
26.	D
27.	_D

28.