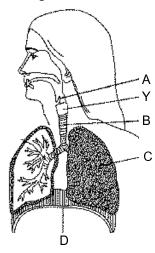
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Respiratory and Excretory Systems - B

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

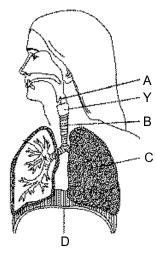
- 1. What is the most important function of the respiratory system?
 - a. To move air past the vocal cords and create sound.
 - b. To move oxygen from the outside environment into the body.
- c. To provide structural support for the chest cavity.
- d. To generate enough air pressure so the lungs do not collapse.
- 2. What role do mucus and cilia play in the respiratory system?
 - a. They help foreign substances travel down c. to your lungs.
 - b. They clean and moisten the air you breathe in.
- c. They help you smell and taste the food you eat.
- d. They slow down the flow of air into your lungs.
- 3. Where in the respiratory system does gas exchange occur?



- a. Part A
- b. Part C

- c. Part Y
- d. Part B

4. Which part of the diagram shows the trachea?



a. Part B

b. Part C

c. Part D

d. Part A

5. Which two organ systems work together to get oxygen to your cells?

a. Circulatory and Respiratory System.

c. Circulatory and Muscular System.

b. Respiratory and Muscular System.

d. Circulatory and Excretory System.

6. When you breathe, which route does the incoming air go on its way to the lungs?

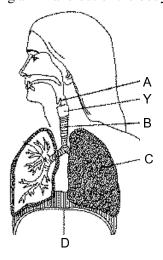
a. Nose - Bronchi - Trachea - Pharynx

c. Nose - Trachea - Bronchi - Pharynx

b. Nose - Pharynx - Trachea - Bronchi

d. Nose - Trachea - Pharynx - Bronchi

7. Which structure causes breathing by moving air in and out of the body when it contracts and relaxes?



a. Part D

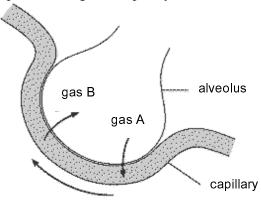
c. Part A

b. Part B

d. Part C

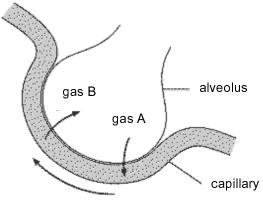
- 8. What probably happens to a person if Part Y (larynx) is damaged or infected?
 - a. They would have trouble coughing.
- c. They would have trouble breathing.
- b. They would have trouble speaking.
- d. They would have trouble swallowing..

9. What happens to the blood as it passes through the capillary around the alveolus?



direction of blood flow

- a. Oxygen and carbon dioxide enter the blood and nitrogen leaves the blood.
- b. Air enters the blood and water vapor leaves the blood.
- c. Carbon dioxide enters the blood and oxygen leaves the blood.
- d. Oxygen enters the blood and carbon dioxide leaves the blood.
- 10. The walls of the alveoli and capillaries are very thin. Why are the thin walls important to their function?



direction of blood flow

- a. They allow gases to flow easily into and out of the blood.
- b. They allow room for many alveoli to fit in the lungs.
- c. They prevent the spread of infection into the blood.
- d. They prevent too much blood from building up in the lungs.
- 11. How does the air you breathe out compare to the air you breathe in?
 - The air you breathe out contains more oxygen, but less carbon dioxide and water vapor.
 - b. The air you breathe out contains less oxygen, but more carbon dioxide and water vapor.
- The air you breathe out contains more oxygen, carbon dioxide, and water vapor.
- d. The air you breathe out contains less oxygen, carbon dioxide and water vapor.

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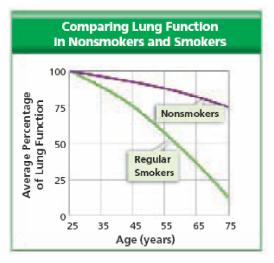
12. You notice as you run up a flight of stairs to your next class that your heart rate is pounding and your breating is deeper and more rapid than when you started. After a short time sitting in class, your respiration rate and heart rate seem to return to normal. You know that during exercise, your heart rate, respiration rate, and ability to hold your breathe (maximum breath-holding time) change. You gather the data shown in the table below. Use this data to answer questions #12, 13, and 14.

	Pulse rate (beats/min)	Respiration rate (breaths/min)	Blood pressure (diastolic/systolic)	Maximum breath-holding time
Normal (standing)	75	12	110/80	55
Walking up stairs	90	15	120/80	45
Running up stairs	110	20	130/80	30

As exercise becomes more strenuous (harder), which changes occur?

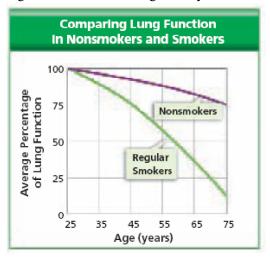
- a. Pulse rate and respiration rate increase while diastolic blood pressure decreases.
- b. Pulse rate, respiration rate, and diastolic blood pressure all increase.
- c. Pulse rate increases while respiration rate and diastolic blood pressure decrease.
- d. Pulse rate, respiration rate, and diastolic blood pressure all decrease.
- 13. Suppose you lie down immediately after you run up the stairs. What would happen to your respiration rate and maximum breath-holding time after 15 minutes?
 - a. Respiration rate and maximum breath-holding time would both decrease.
 - b. Respiration rate would decrease, and maximum breath-holding time would increase.
- e. Respiration rate and maximum breath-holiding time would both increase.
- d. Respiration rate would increase, and maximum breath-holding time would decrease.
- 14. As you exercise, why does your respiration rate increase?
 - a. More oxygen is needed to keep your temperature down.
 - b. More oxygen is needed to provide energy d. for your working muscles.
- c. You are sweating and need more water vapor.
 - d. Your blood pressure is increasing.

15. At approximately what age do the lungs of a smoker have the same capacity as the lungs of a 75-year old who has never smoked?



- a. 75
- b. 65

- c. 45
- d. 25
- 16. What general conclusion about lung function and smoking could you make from this graph?



- a. Smoking significantly reduces lung capacity.
- b. By the age of 50, a smoker will have 50% lung capacity.
- c. People who smoke have better lung function than those who don't smoke.
- d. Smoking does not affect lung capacity.
- 17. How can smoking lead to respiratory diseases such as emphysema?
 - a. By damaging the diaphragm.
- c. By slowing the heart rate.
- b. By increasing hemoglobin levels
- d. By destroying lung tissue.
- 18. How does perspiration help maintain homeostasis?
 - a. It evaporates keeping heat in your body.
- c. It evaporates and eliminates waste from the body
- b. It evaporates carrying body heat away.
- d. .It evaporates carrying extra water away.

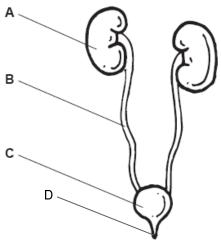
- 19. What is the main function of the excretory system?
 - a. To bring oxygen to the body cells.
- c. To fight diseases.
- b. To protect the respiratory system.
- d. To remove wastes from the body.
- 20. Under normal conditions, which of the following substances is found in urine?
 - a. Urea

c. Glucose

b. Blood cells

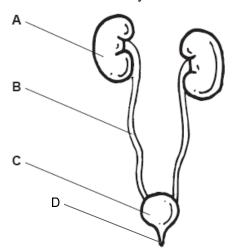
d. Protein

21. Which organ is the kidney?



- a. Part B
- b. Part C

- c. Part D
- d. Part A
- 22. Which organ stores the urine before it leaves the body?



- a. Part C
- b. Part B

- c. Part D
- d. Part A
- 23. Why are the kidneys often compared to "filters"?
 - a. They remove waste products from the blood.
 - b. They clean toxins out of the water we drink.
- . They clean particles out of the air we breathe.
- d. They remove excess urine from the bladder.

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24. 25.	a. b.	To remove excess waste To see whether the kidne properly. To the major source of waste	from the body. ys are working	c. 'd.	To so in the To description	ee if the pateir blood. etermine them.	e? cient has eno e health of t		
		Average Daily Water Loss in Humans (mL)							
			Source	Norm Weat		Hot Weather	Extended Heavy Exercise		
			Lungs	350		250	650		
			Urine	1,40	0	1,200	500		
			Sweat	450	0	1,750	5,350		
			Digestive waste	200		200	200		
26	a. Lungs b. Urine		d.]	d. Digestive Waste					
26.	wha.	To replace the extra wate urine. To replace the extra wate urine. To replace the extra wate breathing hard during exceptions.	er you lose in	c. 'd.	To re swea To k	eplace the e	extra water y	ou lose by	
27.	27. What is the primary way that the excretory system helps maintain homeostasis? a. It keeps the body free of harmful levels c. It keeps the body's temperature stable of chemicals by eliminating waste controlling your heart rate. products.				·				
	b.	stable by conserving as n possible.		nt d. It keeps the proper oxygen levels in yo blood by controlling your breathing rat					
28.	•					cribes the blood entering and			
	a.	more harmful chemicals leaving the kidneys.	tering the kidneys contains l chemicals than the blood idneys.		The blood entering the kidneys has less blood pressure than the blood leaving the kidneys.				
	b.	The blood entering the ki less water than the blood kidneys.	•			The blood entering the kidneys is cleaner than the blood leaving the kidneys.			
29.		•	•		_	and stop w	orking prope	erly. If both kidneys fail, how	
	can a person maintain homeostasis and stay healthy? a. By carefully managing the diet to make c. Antibiotics can control bacterial sure harmful chemicals don't build up in infections to keep the person healthy. the blood.								
	b.	The person should increa and maintain urine output		te d. The blood nee machine in a j				•	

30.	-	-	removed. The other kidney can often keep the blood ork of two kidneys. Which statement best describes how It becomes smaller and weaker, due to the strain of doing double the work. It clones itself to replace the missing			
31.	What are the levels of organization in the body	fron	kidney.			
31.	 a. Organs - Cells - Organ System - Tissue - Organism b. Organism - Organ - Organ System - Tissue - Cell 	c.	Cells - Tissue - Organs - Organ System - Organism Tissue - Organ System - Organs - Cells - Organism			
 32.						
	body? a. Healing. b. Homeostasis.	c. d.	Regeneration. Organization.			
 33.	What is the main function of the digestive system.		The shade made and the header and from			
	a. To obtain oxygen that the body needs for important cell processes.	c.	To obtain nutrients the body needs for energy, growth, and repairing tissues.			
	b. To direct how the body responds to changes inside and outside the body.	d.	To eliminate waste products from the body and maintain a stable internal environment.			
 34.	What happens in the small intestine of the dige	stive	system?			
	a. Mechanical digestion	c.	Water is absorbed			
	b. Waste is eliminated	d.	Nutrients are absorbed			
 35.	According to the Food Guide Pyramid, which ga. Meat, Eggs, Beanb. Grains, Bread, Cereal	group c. d.	should make up the smallest part of the person's diet? Fats, Oil, Sweets Milk, Yogurt, Cheese			
36.	What is the most important function of the circ		_			
	a. To generate blood pressure so the arteries and veins do not collapse.b. To provide structural support for the lungs and heart.	c.				
37.	What is the correct path of blood through the b	ody?				
	a. Lungs - Rest of Body - Heartb. Heart - Lungs - Heart - Rest of Body	c. d.	Heart - Lungs - Rest of Body Heart - Rest of Body - Lungs - Heart			
 38.	Where does blood go after the ventricles contra	act?				
	a. Into the veins.	c.	Through the septum.			
20	b. Out of the heart.	d.	Into the heart.			
 39.	What material does the circulatory system transa. Enzymes	sport c.	Carbon Dioxide			
	b. Glucose	d.	Oxygen			
 40.	Which statement best describes the blood in the					
	a. The blood is oxygen-rich.	c.	The blood is going to the heart.			
	b. The blood is oxygen-poor.	d.	The blood is going to the lungs.			

ID: A

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