

Test-Taking Tip

Questions that begin with a list of lettered choices (A–E) followed by numbered statements are essentially multiple-choice questions. To solve these questions, use the same process that you use to solve standard multiple-choice questions.

Questions 1–4 Each of the lettered choices below refers to the following numbered statements. Select the best lettered choice. A choice may be used once, more than once, or not at all.

- (A) Synapse
- (B) Myelin sheath
- (C) Cerebrum
- (D) Cerebellum
- (E) Somatic nervous system

1. The largest and most prominent part of the human brain
2. Carries out activities that are under voluntary control by the brain
3. Gap between two neurons
4. Insulating membrane surrounding some axons

Choose the letter that best answers the question or completes the statement.

5. The process by which organisms keep internal conditions relatively constant is called
 - (A) resting potential.
 - (B) positive feedback.
 - (C) feedback inhibition.
 - (D) the all-or-none principle.
 - (E) homeostasis.
6. Which of the following is NOT a kind of tissue in the human body?
 - (A) epithelial
 - (B) connective
 - (C) neuron
 - (D) nervous
 - (E) muscle
7. The part of a neuron that carries impulses away from the cell body is called a(an)
 - (A) axon.
 - (B) dendrite.
 - (C) node.
 - (D) vesicle.
 - (E) synapse.

8. Which of the following is NOT a structure of the human ear?
 - (A) tympanum
 - (B) cochlea
 - (C) stirrup bone
 - (D) vitreous humor
 - (E) semicircular canals

Questions 9–11

The table below lists the blood alcohol concentration (BAC) as alcohol consumption increases. Use the information in the table to answer the questions that follow.

Blood Alcohol Concentration (Percent)						
Drinks in One Hour	Body Mass					
	45 kg	54 kg	63 kg	72 kg	81 kg	90 kg
1	0.04	0.03	0.03	0.02	0.02	0.02
2	0.07	0.06	0.05	0.05	0.04	0.04
3	0.11	0.09	0.08	0.07	0.06	0.06
4	0.14	0.12	0.10	0.09	0.08	0.07
5	0.18	0.15	0.13	0.11	0.10	0.09
6	0.21	0.18	0.15	0.14	0.12	0.11
7	0.25	0.21	0.18	0.16	0.14	0.13
8	0.29	0.24	0.21	0.18	0.16	0.14
9	0.32	0.27	0.23	0.20	0.18	0.16
10	0.36	0.30	0.26	0.22	0.20	0.18

9. How many drinks in one hour would cause a 63-kg person to have a BAC percentage of 0.08?
 - (A) 1
 - (B) 2
 - (C) 3
 - (D) 4
 - (E) 5
10. If a 54-kg person had 3 drinks in one hour, what would his or her BAC percentage be?
 - (A) 0.06
 - (B) 0.08
 - (C) 0.09
 - (D) 0.11
 - (E) 0.12
11. If a 72-kg person had 4 drinks in two hours, what would his or her BAC percentage be?
 - (A) 0.03
 - (B) 0.05
 - (C) 0.08
 - (D) 0.13
 - (E) 0.16

Standardized Test Prep

1. C
2. C
3. A
4. B
5. E
6. C
7. A
8. D
9. C
10. C
11. B

Writing in Science

Students should select five organ systems that are most closely related to playing soccer. The best choices are the nervous, skeletal, muscular, circulatory, and respiratory systems. Their explanations should reflect an understanding of the role that each system plays in the mental and physical activities associated with the game and how the systems work together.

Performance-Based Assessment

Student projects should reflect the general hypothesis that the right hemisphere of the brain is associated with creativity and artistic ability and the left hemisphere with analytical and mathematical ability.

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