## QUIZ 9



St

Exposure to stress activates the hypothalamo-pituitary-adrenocortical system as demonstrated by

- A. Increased secretion of corticotropin from the anterior pituitary in response to stress
- B. Increased secretion of corticotropin releasing hormone from the hypothalamus in response to stress
- C. Increased secretion of cortisol from the adrenal medulla in response to stress
- D. Both A and B
- E. All of the choices are correct



- 2. Which of the following acts to decrease blood glucose levels?
- A. Glucagon
- B. Insulin
- C. Growth hormone
- D. Epinephrine
- E. Cortisol



- 3. Which of the following statements is not true of the endocrine system?
- A. It is one of two major regulatory systems of the body
- B. It is composed of glands that secrete chemical messengers into the blood
- C. It is an important regulator of homeostatic mechanisms
- D. It influences and is influenced by the nervous system
- E. All of the choices are true



- 4. The major hormone responsible for mediating the body's response to stress is
- A. Thyroid hormone
- B. Growth hormone
- C. Testosterone
- D. Aldosterone
- E. Cortisol



- Symptoms of untreated insulin-dependent diabetes mellitus include
- A. Hyperglycemia
- B. Reduced blood volume
- C. Depressed respiration
- D. Hyperglycemia and reduced blood volume
- E. All of the choices are correct.

E	<ul> <li>6. The hormones secreted by the posterior pituitary include</li> <li>A. Vasopressin</li> <li>B. Corticotropin</li> <li>C. Oxytocin</li> <li>D. Vasopressin and corticotropin</li> <li>E. Vasopressin and oxytocin</li> </ul>	
Ł	Insulin A. Increases the uptake and utilization of glucose by muscle and adipose-tissue cells B. Increases the uptake and utilization of glucose by most nerve cells C. Decreases the uptake of amino acids by muscle cells D. Both A and B E. Both A and C	
B	8. When plasma glucose concentration increases, the secretion of insulin is secretion of glucagon is However, an increase in sympathetic activity will can secretion of insulin and secretion of glucagon.  X. Decreased; increased; increased; decreased B. Increased; decreased; increased; increased C. Increased; decreased; increased; decreased N. Increased; increased; decreased; increased	

Which of the following is *not* a fate of absorbed glucose?

A. It is converted to glycogen by liver cells

- B. It is converted to fatty acids and glycerol phosphate by adipose cells
- C. It is converted to glycogen by muscle cells

E Decreased; decreased; increased; unchanged

- D. It is converted to amino acids by liver cells
- E. It is converted to fatty acids and glycerol phosphate by liver cells

10. The "master gland" of the endocrine system is the A Anterior pituitary gland

- B. Posterior pituitary gland
- C. Hypothalamus
- D. Pancreas
- E. Testis