| Internal Regulation |
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| 1 The term refers to temperature regulation and other biological processes that keep body variables within a fixed range. |
| a. positive feedback **** b. homeothermic c. negative feedback d. thermostasis |
| correct: b |
| 2 One advantage of being homeothermic is that it: |
| a. reduces the fuel requirements of the body. ***** b. enables the individual to stay active when the environment is cool. c. prevents excessive reliance on a single sensory system. d. decreases the need for shivering and sweating. |
| correct: b |
| 3 The POA/AH monitors body temperature partly by monitoring: |
| a. the temperature of the thalamus. b. brain temperature. ***** c. its own temperature. d. heart temperature. |
| correct: c |
| 4 Cells in the preoptic area of the hypothalamus monitor which temperatures? |
| ***** a. Their own and the skin. b. Differences between internal organs and the skin. c. Differences between the arteries and veins. d. Internal organs. |
| correct: a |
| 5 When bacteria, viruses, fungi, or other intruders invade the body, it mobilizes to attack them. |
| a. cholecystokinin b. cytokines c. leptin ***** d. leukocytes |
| correct: d |
| 6 occurs when solutes are more concentrated on one side of the membrane than on the other. |
| ***** a. Osmotic pressure b. Hypovolemic thirst c. Hypovolemic pressure d. Osmoytic thirst |
| correct: a |
| 7 What is the first point in the digestive system where enzymes begin to break down food? |
| a. stomach b. small intestine c. esophagus ***** d. mouth |
| correct: d |

| 8 If an animal eats a new food and shortly thereafter becomes ill, it will probably avoid the food subsequently because the: |
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| a. aftereffects of the illness will block the salivary glands. b. taste buds have been damaged. **** c. animal acquires a conditioned taste aversion. d. stomach will be unable to digest the food. |
| |
| correct: c |
| 9 The vagus nerve is to as the splanchnic nerves are to |
| ***** a. stomach fullness; nutrient contents of the stomach b. the taste of food; the texture of food c. nutrient contents of the stomach; water contents of the stomach d. oral factors (such as chewing and taste); stomach fullness |
| correct: a |
| 10 If the duodenum is partly distended and the stomach is not full, rats will: |
| a. continue to eat. ***** b. stop eating. |
| c. drink more. |
| d. eat larger meals. |
| correct: b |
| 11 When food distends the duodenum, the duodenum releases which hormone? |
| a. angiotensin II ***** b. cholecystokinin c. aldosterone d. prolactin |
| correct: b |
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| 12 Which hormone controls the rate at which glucose leaves the blood and enters the cells? |
| a. aldosterone b. glucagon ***** c. insulin d. CCK |
| correct: c |
| 13 What happens when insulin levels are high upon completing a meal? |
| ***** a. The individual feels hungry again soon after the meal. b. Fat supplies are converted to glucose which enters the blood. c. Blood glucose levels increase. d. Glucose entry into the cells decreases. |
| correct: a |
| 14 For most obese individuals, giving them leptin would: |
| ***** a. likely have not much of an effect. |
| b. decrease appetite. c. increase appetite. |
| d. increase sensitivity to leptin. |

| 15 An increase in the size of meals is most likely to occur following damage to which area of the hypothalamus? |
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| a. ventromedial |
| b. lateral |
| **** c. paraventricular |
| d. preoptic |
| correct: c |
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| 16 When neuropeptide Y inhibits the paraventricular nucleus, it: |
| a. leads to extreme undereating. |
| b. depletes fat stores. |
| c. interferes with digestion. ***** d. produces extreme overeating. |
| d. produces extreme overcaming. |
| correct: d |
| 17 An animal has trouble digesting its food after damage to the: |
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| ***** a. lateral hypothalamus. |
| b. pineal gland. |
| c. medial part of the hypothalamus. d. occipital cortex. |
| d. occipital cortex. |
| correct: a |
| 18 Animals with damage in or near the ventromedial hypothalamus gain weight: |
| a. only if they eat a small number of very large meals per day. |
| ***** b. even if they eat the same amount as a normal animal. |
| c. only if they have access to unlimited water supplies. |
| d. in spite of high activity levels. |
| correct: b |
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| 19 Obesity in Prader-Willi syndrome is linked to a problem with: |
| a. leptin. |
| b. NPY. |
| c. melanocortin. **** d. ghrelin. |
| correct: d |
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| 20 A cycle of food-deprivation followed by overeating characterizes: |
| **** a. bulimia. |
| b. bipolar disorder. |
| c. anorexia. |
| d. obesity. |
| correct: a |