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Chapter 02: Homeostasis
Patton: Anatomy and Physiology, 10th Edition

MULTIPLE CHOICE

1. Of the 11 major body systems, which is the least involved in maintaining homeostasis?
   a. Circulatory
   b. Endocrine
   c. Lymphatic
   d. Reproductive

   ANS: D DIF: Application REF: p. 25, Table 2-1
   TOP: Homeostatic Functions of Body Systems

2. *Homeostasis* can best be described as:
   a. a constant state maintained by living and nonliving organisms.
   b. a state of relative constancy.
   c. adaptation to the external environment.
   d. changes in body temperature.

   ANS: B DIF: Application REF: p. 31 TOP: Homeostasis

3. The normal reading or range of normal is called the:
   a. sensor point.
   b. set point.
   c. effector point.
   d. integrator point.

   ANS: B DIF: Memorization REF: p. 24
   TOP: Set Point

4. Which of the following is not one of the basic components in a feedback control loop?
   a. Effector mechanism
   b. Transmitter
   c. Sensor
   d. Integrating center

   ANS: B DIF: Memorization REF: p. 27
   TOP: Basic Components of Control Mechanisms

5. The body's thermostat is located in the:
   a. heart.
   b. cerebellum.
   c. pituitary.
   d. hypothalamus.

   ANS: D DIF: Memorization REF: p. 27
   TOP: Basic Components of Control Mechanisms

6. The contraction of the uterus during the birth of a baby is an example of _____ feedback.
   a. negative

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b. positive
c. inhibitory
d. deviating

ANS: B DIF: Memorization REF: p. 29
TOP: Positive Feedback in Control Systems

7. Negative-feedback mechanisms:
   a. minimize changes in blood glucose levels.
   b. maintain homeostasis.
   c. are responsible for an increased rate of sweating when air temperature is higher than body temperature.
   d. All of the above are correct.

ANS: D DIF: Memorization REF: p. 28
TOP: Negative Feedback in Control Systems

8. *Pathogenesis* can be defined as:
   a. a specific disease.
   b. a group of diseases.
   c. the course of disease development.
   d. a subgroup of viruses.

ANS: C DIF: Memorization REF: p. 32
TOP: Disease Terminology

9. Intracellular parasites that consist of DNA or RNA surrounded by a protein coat and sometimes by a lipoprotein envelope are called:
   a. viruses.
   b. bacteria.
   c. fungi.
   d. protozoa.

ANS: A DIF: Memorization REF: p. 34
TOP: Basic Mechanisms of Disease

10. The term that literally means self-immunity is:
    a. autoimmunity.
    b. homoimmunity.
    c. passive immunity.
    d. active immunity.

ANS: A DIF: Memorization REF: p. 34
TOP: Basic Mechanisms of Disease

11. *Epidemiology* is the study of the _____ of diseases in human populations.
    a. occurrence
    b. distribution
    c. transmission
    d. All of the above are correct.

ANS: D DIF: Memorization REF: p. 32
TOP: Disease Terminology

12. Which of the following may put one at risk for developing a given disease?
    a. Environment
    b. Stress
    c. Lifestyle
    d. All of the above

    ANS: D DIF: Memorization REF: pp. 34-35
    TOP: Basic Mechanisms of Disease

13. Negative-feedback control systems:
    a. oppose a change.
    b. accelerate a change.
    c. have no effect on the deviation from set point.
    d. establish a new set point.

    ANS: A DIF: Memorization REF: p. 28
    TOP: Negative Feedback in Control Systems

14. Positive-feedback control systems:
    a. have no effect on the deviation from set point.
    b. accelerate a change.
    c. ignore a change.
    d. do not exist in human systems.

    ANS: B DIF: Memorization REF: p. 28
    TOP: Positive Feedback in Control Mechanisms

15. Shivering to try to raise your body temperature back to normal would be an example of:
    a. the body trying to maintain homeostasis.
    b. a positive-feedback mechanism.
    c. a negative-feedback mechanism.
    d. both A and C.

    ANS: D DIF: Synthesis REF: p. 27
    TOP: Negative Feedback in Control Systems

16. Which of the following is a protein substance with no DNA or RNA and is thought to be the cause of mad cow disease?
    a. Virus
    b. Bacteria
    c. Prion
    d. Protozoan

    ANS: C DIF: Memorization REF: p. 33
    TOP: Pathogenic Organisms

17. Of the pathogenic organisms, which of the following are the most complex?
    a. Viruses
    b. Tapeworms
    c. Bacteria
    d. Protozoa

ANS: B DIF: Memorization REF: p. 34
TOP: Pathogenic Organisms

18. If the secretion of oxytocin during childbirth operated as a negative-feedback control loop, what effect would it have on uterine contractions?
    a. Oxytocin would stimulate stronger uterine contractions.
    b. Oxytocin would inhibit uterine contractions.
    c. There would be no changes in the strength of the uterine contractions.
    d. Uterine contractions would initially be weak and then gain strength after the release of the hormone.

    ANS: B DIF: Application REF: p. 28
    TOP: Positive Feedback in Control Systems

19. Intrinsic control:
    a. usually involves the endocrine or nervous system.
    b. operates at the cellular level.
    c. is sometimes called *autoregulation*.
    d. operates at the system or organism level.

    ANS: C DIF: Memorization REF: p. 31
    TOP: Levels of Homeostatic Control

MATCHING

Match each term with its corresponding definition or explanation

a. Prion
b. Tumor
c. Fungi
d. Gene mutation
e. Bacteria
f. Virus
g. Protozoa

1. An intracellular parasite that consists of an RNA or DNA core surrounded by a protein coat
2. A type of protein that converts normal protein in the nervous system into abnormal proteins that cause loss of function
3. A tiny, primitive cell that lacks a nucleus and can cause infection
4. An abnormal growth or neoplasm
5. Altered DNA that causes abnormal proteins to be made that do not perform their intended function
6. A one-celled organism whose DNA is organized into a nucleus that can parasitize human tissue
7. Simple organisms that are similar to plants but lack chlorophyll, which allows plants to make their own food; because these organisms cannot make their own food, they parasitize human tissue

1. ANS: F DIF: Memorization REF: p. 34
   TOP: Basic Mechanisms of Disease

2. ANS: A DIF: Memorization REF: p. 33
   TOP: Basic Mechanisms of Disease
3. ANS: E DIF: Memorization REF: p. 34
   TOP: Basic Mechanisms of Disease
4. ANS: B DIF: Memorization REF: p. 34
   TOP: Basic Mechanisms of Disease
5. ANS: D DIF: Memorization REF: p. 33
   TOP: Basic Mechanisms of Disease
6. ANS: G DIF: Memorization REF: p. 34
   TOP: Basic Mechanisms of Disease
7. ANS: C DIF: Memorization REF: p. 34
   TOP: Basic Mechanisms of Disease

SHORT ANSWER

1. Diagram a homeostatic control mechanism, including the three basic components.

   ANS:
   Answers will vary.

   DIF: Synthesis REF: p. 26 TOP: Homeostatic Control Mechanisms

2. How does childbirth demonstrate positive feedback?

   ANS:
   Answers will vary.

   DIF: Synthesis REF: p. 29 TOP: Positive Feedback in Control Systems

3. Give an example of how categories of risk factors or predisposing conditions could overlap.

   ANS:
   Answers will vary.

   DIF: Synthesis REF: pp. 34-35 TOP: Basic Mechanisms of Disease

4. Explain the feed-forward control system, and give an example of one in the body.

   ANS:
   Answers will vary.

   DIF: Application REF: p. 34 TOP: Feed-Forward in Control Systems

ESSAY

1. Give an example of a system, either living or nonliving, that is designed to maintain a relatively constant condition by using a negative-feedback mechanism. Explain briefly how the system works to accomplish this.

   ANS:

Answers will vary.

DIF: Synthesis REF: pp. 28-29 TOP: Basic Components of Control Mechanisms

2. Explain how your set point can change under varying circumstances.

ANS:
Answers will vary

DIF: Synthesis REF: pp. 29-30 TOP: Changing the Set Point

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