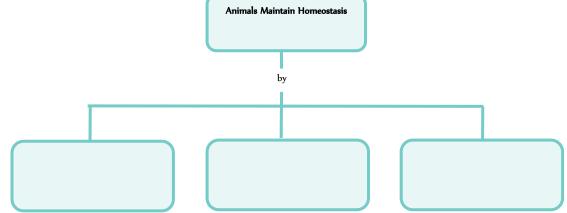
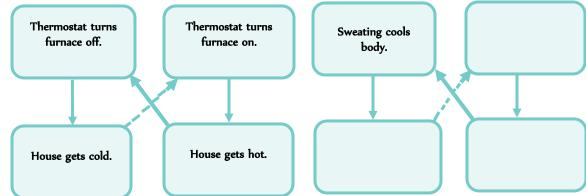
Homeostasis (p. 732-733, 827-828 and 864-867)

1. Complete the graphic organizer to define three ways that animals maintain homeostasis.



2. Complete the blank boxes in the diagram on the right below to show how body temperature is maintained in a human being.



| 3. | Describe ger | nerally h | now an anii | mal's nervous an | nd musculoskeleta | l systems work | together to | allow it to | escape a i | oredator. |
|----|--------------|-----------|-------------|------------------|-------------------|----------------|-------------|-------------|------------|-----------|
| | | | | | | | | | | |

| 5. | Name the | body | system | that l | ıelps | protect | mammals | from | disease a | and o | descril | be | how it | accomp | lisl | nes t | his | tasl | (|
|----|----------|------|--------|--------|-------|---------|---------|------|-----------|-------|---------|----|--------|--------|------|-------|-----|------|---|
|----|----------|------|--------|--------|-------|---------|---------|------|-----------|-------|---------|----|--------|--------|------|-------|-----|------|---|

| 6. What are endocrine glands? |
|-------------------------------|
|-------------------------------|

- 7. What is a feedback inhibition? Give an example of how it is used in the human body.
- 8. Why is the liver important for homeostasis?
- 9. Which organ systems work together to maintain body temperature?

$Nervous\ System\ ({\tt p.\ 896-897})$

| Name the two parts of the nervous system and explain what each part does |
|---|
| Draw and label a diagram of a neuron. Be sure to include the following features in your drawing: axon, axon terminals, cell body, dendrites, myelin sheath, nodes, and nucleus. |
| |
| Neurons that carry impulses from the eyes to the spinal cord and brain are called |
| Motor neurons carry impulses from the brain and spinal cord to and |
| The neuron's cell body has short, branched extensions called which receive impulses from other neurons. |
| In most animals, of different neurons are clustered in bundles called nerves. |
| The insulating membrane that surrounds a single axon in some neurons is called the |
| Endocrine System (p. 982-986) |
| |
| The pituitary gland is located at the base of the and consists of the |
| The pituitary gland is located at the base of the and consists of the pituitary and the pituitary. |
| pituitary and the pituitarycells in the produce hormones that are released by the |
| pituitary and the pituitary. |
| pituitary and the pituitarycells in the produce hormones that are released by the The two hormones released from the posterior pituitary are oxytocin and hormones secreted into blood vessels leading to the pituitary control its secretions. |
| pituitary and the pituitary cells in the produce hormones that are released by the The two hormones released from the posterior pituitary are oxytocin and |

8. Use the key choices to match each pituitary hormone with its action

| Key Choices | | | | | | |
|-------------|-----|----|----|------|--|--|
| MSH | TSH | LH | GH | ACTH | | |

- _____ Stimulates ovaries and testes
- _____ Stimulates the release of thyroxine
- _____ Stimulates release of hormones from adrenal cortex
- Stimulates protein synthesis and growth in cells
- _____ Stimulates melanocytes to increase production of melanin in the skin

9. Complete the table. Fill in the missing information about each adrenal gland.

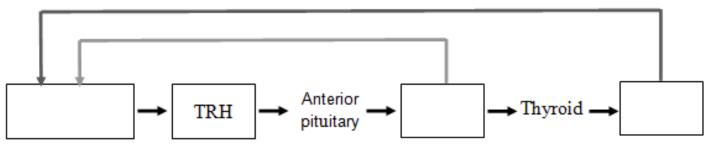
| Part of the Adrenal Gland | Hormone(s) Produced | Function |
|---------------------------|---------------------|----------|
| Adrenal cortex | | |
| Adrenal medulla | | |

10. What is feedback inhibition?

List two ways that bacteria can produce illness.

11. Complete the flowchart to show how feedback controls regulate the thyroid gland.

Inhibition



| 1. | Immune System (p. 1010-1028) What are infectious diseases, and what causes them? |
|----|--|
| 2. | How did the germ theory of disease get its name? |
| | What is another name that scientists use for a disease-causing agent? |
| 3. | What are Koch's postulates used for? |
| | |

| discover antigens in body fluids. defend the body against pathogens that have infected body cells. | African sleeping sickness athlete's foot botulism chicken pox hookworm influenza malaria trichinosis tuberculosis Are microorganisms always harmful to the human body? Explain your answer, and give an example. List three ways that parasitic worms cause disease. a. b. c. The response is the body's response to specific invaders. A substance that triggers the immune response is known as a (n) The main role of is to for destruction by immune-system cells. The main working cells of the immune system are two types of Their specific types are determined by a perso discover antigens in body fluids. defend the body against pathogens that have infected body cells. A runny nose is a symptom of a cold. How is this evidence that the body's immune defenses are working? What type of immunity does a mother pass on to her infant while breastfeeding? Why is passive immunity only temporary? | | y be used more that | | Key Choices | | | |
|---|---|-------------|-----------------------|-----------------------|-----------------------------|----------------------|----------------------------|------------|
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| | | Why is no | ssive immunity only | temporary? | | | | |
| After being vaccinated, many children are treated for fever. This is not considered a danger or problem. Why might this happen? | After being vaccinated, many children are treated for fever. This is not considered a danger or problem. Why might this happen? | iiiy is pa | co.ve miniamity offig | temporary. | | | | |
| After being vaccinated, many children are treated for fever. This is not considered a danger or problem. Why might this happen? | After being vaccinated, many children are treated for fever. This is not considered a danger or problem. Why might this happen? | A.C. 1 : | | 1.11 | C C -1 · · | .1 1 1 | 11 11 11 11 11 1 | |
| | | After being | g vaccinated, many | children are treated | tor tever. This is not cons | idered a danger or | problem. Why might this ha | appen? |
| | | • | | | | | | |
| | | | | | | | | |

| 20. | What is the ke disease in your | | n immunodeficiency diseas | se and an autoimmune d | isease? Provide an examp | ble of both types of |
|-----------------|---|--|--|---|--|---------------------------------------|
| | | | | | | |
| | | | | | | |
| Essential 1. | Questions How do the er one of these sy | | mmune systems work togo | ether to maintain homeo | stasis in the human body | when a disruption in |
| | | | | | | |
| | | | | | | |
| 2. | How do extern | al and internal environ | mental factors impact hor | neostasis of the human b | oody? | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 3. | What are some | e ways that the human | body responds to internal | changes such as the pre | esence of excess salt? | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 4. | How do negati | ve feedback loops influ | ence homeostasis in huma | nn body systems? | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | 1 | Init 8 Directed Rea | ading Guide Rubr | ic | |
| | | Exceeds Standard 100% | Meets Standard 75% | Approaches Standard 50% | Doesn't Meet Standard 25% | Incomplete 0% |
| | on Completeness 40 pts) | All questions in all sections completed. | No more than 5 questions are incomplete. | 6-20 questions are incomplete in the entire DRG are incomplete. | More than 20 questions are incomplete. | More than one section was incomplete. |

incomplete.

An attempt was made to answer both of the

essential questions. Both

answers are incorrect.

One or both of the

essential questions was left blank.

section.

An attempt was made to answer both of the

essential questions. One

answer is incorrect.

Essential Questions (10 pts) Both essential questions were answered correctly.