

CHAPTER REVIEW

Chapter 20

Types of Disease

I. Vocabulary Review

Unscramble the words in the following list. Then, in the space provided, write the word from the list that best completes each statement.

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1. The ability of living things to maintain a stable internal environment is called _____.
2. A disruption of homeostasis that impairs essential functions is a(n) _____.
3. A _____ is a disease-causing virus or microscopic organism.
4. An organism that carries disease from one animal or person to another is called a _____.
5. The term _____ refers to different forms of the same gene.
6. A person with two different alleles for a gene is said to be _____.
7. The disease caused by *Plasmodium* is _____.

II. Concept Review

Match the body system in Column I with its function in Column II.

Column I	Column II
_____ 8. circulatory	a. breaks down food substances into building blocks
_____ 9. digestive	b. removes wastes from the blood
_____ 10. respiratory	c. helps cells maintain a balance of oxygen, water, and nutrients
_____ 11. urinary	d. delivers oxygen and removes carbon dioxide

In the blank at the left, write the letter of the choice that best completes the statement or answers the question.

- _____ 12. How many chromosomes does a child inherit from each parent?
 a. 46 b. 43 c. 33 d. 23
- _____ 13. Which statement is true about a child who inherits one normal allele and one cystic fibrosis allele?
 a. The child has cystic fibrosis.
 b. The child is a carrier of cystic fibrosis.
 c. The child is homozygous.
 d. One of the child's parents must have cystic fibrosis.

Chapter Review 20 (continued)

- _____ 14. What are the chances of a normal parent and a parent who is a carrier for sickle cell disease having a child with sickle cell disease?
a. zero percent b. 25 percent c. 50 percent d. 75 percent
- _____ 15. What can a Punnett square reveal?
a. The chances that a given birth will have a certain genetic makeup.
b. The possible combinations of the parents' alleles.
c. The risk of a particular couple having a child with a certain genetic disease.
d. all of the above
16. Draw a Punnett Square with a mother who has cystic fibrosis and a heterozygous father.

III. Skills/Process Review

Answer the following questions in complete sentences.

17. Relate the concept of homeostasis to disease, using diabetes as an example. _____

18. Why is this statement true, "Bacteria can kill us, but we can't live without them"?

19. What lifestyle choices would you make if you wanted to reduce your risk of developing heart disease and cancer? _____

IV. Feature Review

20. **Science and Society Issue: Is Health-care Reform Needed?** Describe some advantages and disadvantages of health care in the United States. _____

