Chapter 3: Heredity and Environment
The Developing Person Through Childhood and Adolescence

Across

1. This condition ________ syndrome, is also known as trisomy-21 due to the fact that it is caused by the presence of an extra, or third, chromosome at the 21st position. (p. 82)

3. Markie and Justin are expecting their first child, and their pediatrician tells them that prenatal testing indicates that their child has a(n) ________ chromosome combination. That day they go out and buy baby clothes for the son that they know they will be having. (p. 67)

5. Though some species have more or fewer, a normally developing human being has 46 ________, and gets 23 from each parent. (p. 64)

9. Most human traits are both multifactorial (influenced by many factors) and ________ (affected by many genes). (p. 73)

11. A single cell that is formed by the fusing of two gametes, a sperm and an ovum, is a ________. (p. 66)

12. Dawnelle and her husband Xavier have been trying to get pregnant for over 2 years, and are now using a procedure during which his sperm and her ova are mixed outside of her body and then reinserted into her uterus. This procedure is called in ________ fertilization. (p. 71)

13. Michael is born with the genetic code to grow up to be over six feet tall, but he is only 21 inches long at birth. The code for the height that he will eventually mature into is called a(n) ________. (p. 66)

14. ________ X syndrome is a genetic disorder in which part of the X chromosome is attached to the rest of it by a very thin string of molecules. (p. 83)

15. When a person carries the gene for a particular phenotype but does not demonstrate the characteristics of those genes, they are referred to as a ________. (p. 76)

16. Couples who are concerned about the possibility of passing a hereditary condition on to a child might
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be good candidates for ________ counseling. (p. 88)

17. A(n) ________ gene is one that has several alleles, each of which contributes to the final phenotype, such as skin color or height. (p. 75)

19. Although each human being has a slightly different genetic code, the human ________ (or the total set of genes that make up a species) is 99.9% the same for any two persons. (p. 65)

Down

1. Mandy and Andy were named by their parents to reflect the fact that they were born only six minutes apart. The fact that one of them is a boy and the other is a girl, however, means that they must be ________ twins. (p. 70)

2. A slight, normal variation of a particular gene is called a(n) ________. (p. 64)

4. Minda and Linda are ________ twins, and since they were born their parents have dressed them in the same clothes, cut their hair the same way, and have celebrated their remarkable similarities. (p. 70)

6. The physical expression of one's genetic code is referred to as their ________. (p. 73)

7. The interaction of a pair of alleles in such a way that the phenotype reveals the influence of one gene more than another is called a ________-recessive pattern. (p. 76)

8. Michael has this genetic disorder, in which a child's body is unable to metabolize a specific amino acid. Thankfully, his condition will be easily treated by eliminating this amino acid from his diet so that it doesn't cause brain damage and mental retardation. (p. 89)

10. A general term for the techniques designed to help infertile couples conceive and then sustain a pregnancy is assisted ________ technology (ART). (p. 71)

18. A ________ is a tiny section of a chromosome that contains the basic information for the transmission of heredity from a parent to a child. (p. 64)