Chapter 11 Introduction to Genetics

Chapter Vocabulary Review

Matching On the lines provided, write the letter of the definition of each term. a. likelihood that something will happen 1. genetics 2. trait b. process of reduction division 3. hybrid c. specific characteristic d. produced by crossing parents with different alleles 4. gene e. containing a single set of chromosomes 5. allele f. reproductive cell **6.** gamete 7. probability g. factor that controls traits **8.** Punnett square h. diagram showing possible gene combinations 9. haploid i. branch of biology that studies heredity _____ **10.** meiosis j. form of a gene **Completion** *On the lines provided, complete the following sentences:* 11. Organisms that self-pollinate, producing offspring identical to themselves, are _____ 12. When organisms have the same physical characteristics, they have the same _ **13.** According to the principle known as _ genes that segregate independently do not influence each other's inheritance. ____ and _ **14.** _ similar because the phenotypes of organisms are not produced by a single dominant allele. _____ results in the exchange of alleles and produces new combinations of alleles. **Multiple Choice** On the lines provided, write the letter of the answer that best completes the sentence or answers the question. ____ **16.** The separation of alleles is called c. meiosis. a. segregation. b. true-breeding. d. crossing-over. 17. Organisms that have identical alleles for a particular trait are a. heterozygous. c. diploid. b. polygenic. d. homozygous. 18. An organism that has an allele for brown eyes and an allele for blue eyes is a. true-breeding. c. heterozygous.

d. homozygous.

b. homologous.

c. tetrad

d. gene

25. Which of the following shows the relative locations of

c. gamete.

d. genotype.

d. gene map

c. Punnett square

a. diploid

b. haploid

b. tetrad.

b. gamete

24. There are four chromatids in a

each known gene in an organism?

a. polygenic trait.

a. polygenic trait