Chapter 11- Introduction to Genetics

Multiple Choice

[den	tify	the	letter	of the	choice	that b	oest	complete	s the	statement	or	answers the q	uestion.

	1.	Gregor Mendel used pea plants to study a. flowering.
		b. gamete formation. c. the inheritance of traits. d. cross-pollination.
	2.	Offspring that result from crosses between true-breeding parents with different traits a. are true-breeding. b. make up the F ₂ generation. c. make up the parental generation.
·	3.	d. are called hybrids.The chemical factors that determine traits are calleda. alleles.
		b. traits.c. genes.d. characters.
	4.	Gregor Mendel concluded that traits are a. not inherited by offspring. b. inherited through the passing of factors from parents to offspring. c. determined by dominant factors only.
	5.	 d. determined by recessive factors only. When Gregor Mendel crossed a tall plant with a short plant, the F₁ plants inherited a. an allele for tallness from each parent. b. an allele for tallness from the tall parent and an allele for shortness from the short parent.
	6.	c. an allele for shortness from each parent. d. an allele from only the tall parent. The principle of dominance states that a. all alleles are dominant. b. all alleles are recessive. c. some alleles are dominant and others are recessive.
	7.	d. alleles are neither dominant nor recessive. When Gregor Mendel crossed true-breeding tall plants with true-breeding short plants, all the offspring were tall because
		 a. the allele for tall plants is recessive. b. the allele for short plants is dominant. c. the allele for tall plants is dominant. d. they were true-breeding like their parents.
	8.	If a pea plant has a recessive allele for green peas, it will produce a. green peas if it also has a dominant allele for yellow peas. b. both green peas and yellow peas if it also has a dominant allele for yellow peas. c. green peas if it does not also have a dominant allele for yellow peas. d. yellow peas if it does not also have a dominant allele for green peas.
	9.	When you flip a coin, what is the probability that it will come up tails? a. 1/2