## **Answers to Ch.11 Test Review Questions**

p. 283 # 1 - 9

6. D

1. C 2. A

7. D

3. A 8. D

4. C 9. D 5. C

#13 - 18; #22 - 24

13. 1 YY : 2 Yy : 1 yy

	Υ	У
Υ	YY	Yy
У	Yy	уу

- 14. A gene has multiple alleles if it has more than possible alleles in the population. Two or more GENES control polygenic traits (such as skin color in humans controlled by several genes).
- 15. With two alleles for a trait, up to three phenotypes are possible. With three alleles, up to six phenotypes are possible.
- 16. No, genes provide a plan for development, but how the plan unfolds depends on the environment.
- 17. Four
- 18. Homozygous black coat: BB; heterozygous black coat: Bb
- 22. By crossing the white ram to a number of black ewes; if any offspring are black, then the white ram is heterozygous.

23.

	Mitosis	Meiosis
Number of cells	2	4
produced		
Type of cell	Body	Gamete
Chromosome number	Diploid (2N)	Haploid(N)

24. Both parents are heterozygous.