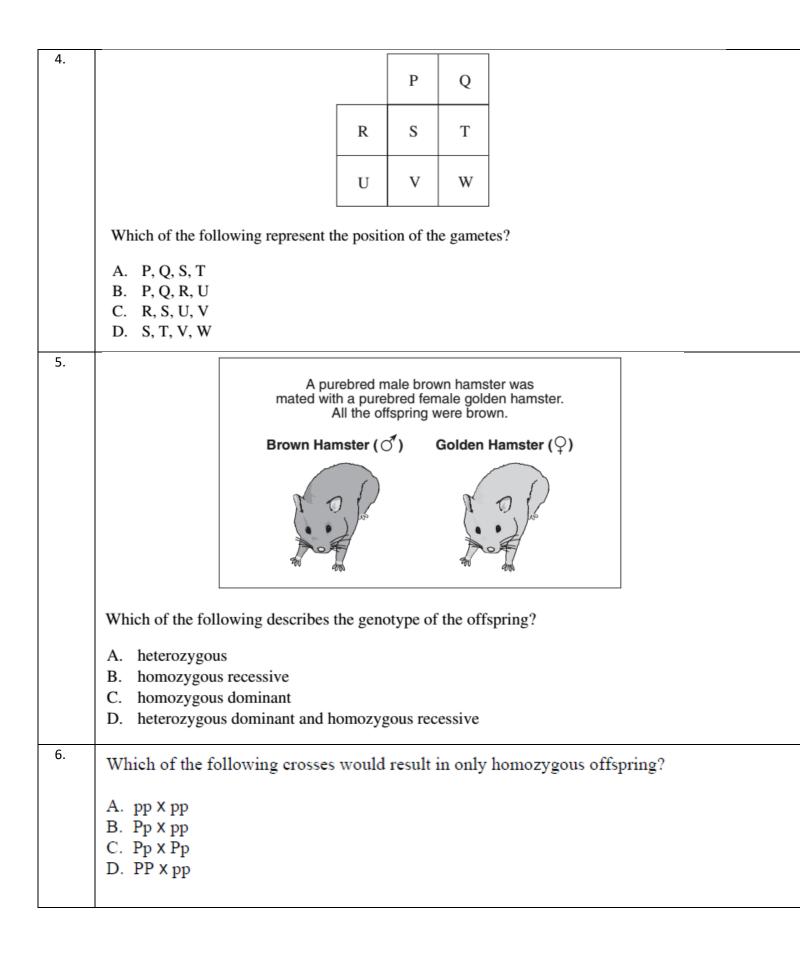
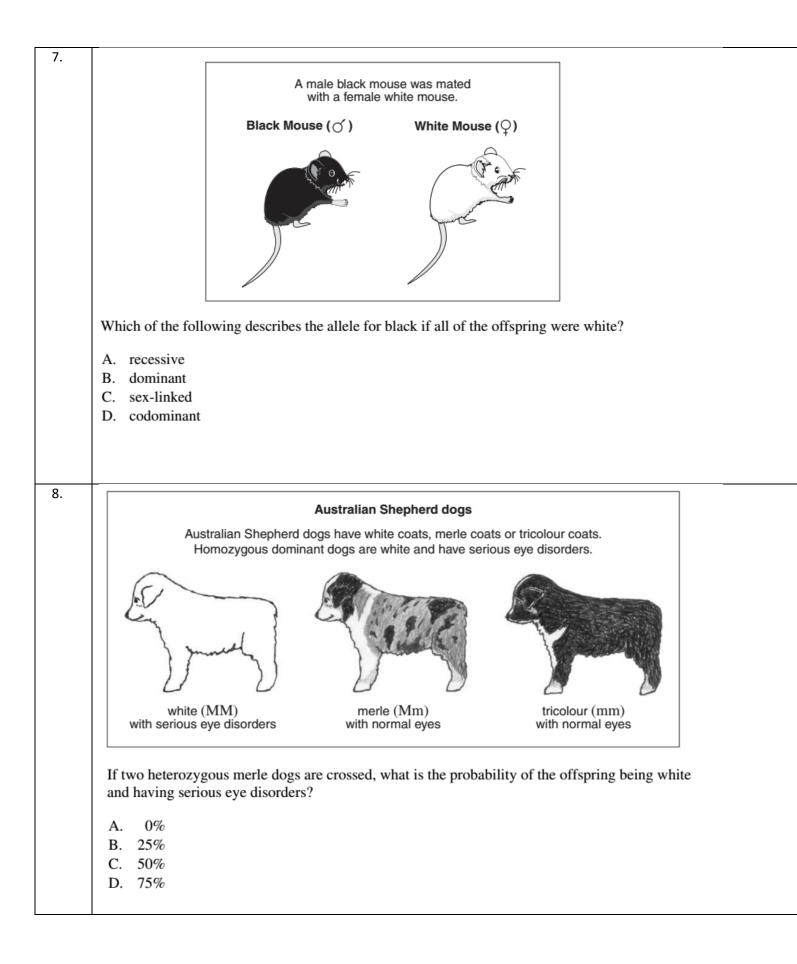
Genetics Practice Multiple Choice

Name: _____

1.	Which of the following describes phenotype?						
		Ι	TT				
		Π	brown eyes				
		Ш	the genes for a particular trait				
		IV	the physical appearance of an organism				
	A. I and II onlyB. I and IV onlyC. II and III onlyD. II and IV only						
2.	 A homozygous, long-tailed cat is mated with a homozygous, short-tailed cat. If long tails are the dominant trait, which of the following would be expected in the offspring? A. all long-tailed B. all short-tailed C. 50% long-tailed; 50% short-tailed D. 75% long-tailed; 25% short-tailed 						
3.	If two cats heterozygous for long tails (Ll) are mated, what would be the expected percentages of phenotypesin their offspring? A. 100 % long tails B. 75% long tails, 25% short tails C. 50% long tails, 50% short tails D. 25% long tails, 75% short tails.						





9.	What will produce a white flower with a red trim when a white flower is crossed with a red flower?
	A. mutation
	B. dominance
	C. codominance D. incomplete dominance
	D. meomplete dominance
10.	Blue-haired blips are crossed with yellow-haired blips. All of the offspring have green hair. Hair color in blips is an example of what?
	a. codominance c. recessive alleles
	b. incomplete dominance d. complete dominance
11.	In codominance, heterozygous individuals have both phenotypes.
	A. True
	B. False
12.	The father is Type O and the mother is type AB. Which statement is true about the probabilities of blood type in their offspring?
	A. 100% AB
	B. 50% A and 50% B
	C. 25% A
	D. 50% AB and 50% A
13.	A woman with heterozygous Type A blood ($I^{A}i$) marries a man with homozygous Type B blood ($I^{B}I^{B}$). What are the chances of having a child that is blood type B?
	A. 0%
	B. 25%
	C. 50% D. 100%
14.	How is the sex of a human offspring determined?
	A The set from the method set in (N 1
	A. The egg from the mother contains two Y chromosomes.B. The sperm from the father contains two Y chromosomes.
	C. The egg from the mother contains an X or a Y chromosome.
	D. The sperm from the father contains an X or a Y chromosome.

15.	Why is colour blindness a sex-linked trait?									
	 A. Only males can have colour blindness. B. Only females can have colour blindness. C. The allele causing colour blindness is on a Y chromosome. D. The allele causing colour blindness is on an X chromosome. 									
16.	 A woman who is heterozygous for colour blindness and a man considering having children. What is the probability of having colour-blind? A. 100% B. 75% C. 25% D. 0% 									
17.	P Q R S T U V W What lettered spaces in the Punnett square would show the this cross? A. R, S, V, W B. P, Q, R, U C. S, T, V, W D. P, Q, S, T	he probable genotypes of								
18.	Match each Description on the left with the correct T Each Term may be used as often as necessary. Record your ans									
	Description	Term								
	15. two different alleles	A. genotype								
	16. two alleles of the same type	B. phenotype								
	17. the physical appearance of an organism	C. homozygous D. heterozygous								
	18. the combination of alleles in an organism	D. heterozygous E. F ₁ generation								
		1								

19.		Ι	Hh×Hh]				
		П	Hh×hh		H = hairy toes			
		Ш	HH×Hh		h = smooth toes			
		IV	HH×hh]		
	The hairy toe allele is dominant and the smooth toe allele is recessive. Which of the following crosses have equal chances of producing heterozygous hairy toed individuals? A. I, II and III only							
	B. I, II and IV onlyC. I, III and IV onlyD. I, II, III and IV	ŗ						
20.	The following coat colors are known to be determined by alleles at one locus in horses: Palomino = golden coat; Cremello = almost white; Chestnut = brown.							
	The following table gives the ratios obtained in matings of the above varieties:							
	Cremello x cremello – all cremello							
	Chestnut x chestnut – all chestnut							
	Cremello x chestnut – all palomino Palomino x palomino – ¼ chestnut, ½ palomino, ¼ cremello							
	Based on these data, wh	at are t	he genotypes of	each ty	be of horse?			
	A. AA = Chestnut; Aa = Cremello; aa = Palomino							
	B. AA = Cremello; Aa = 0 C. AA = Palomino; Aa =	Cremel	lo; aa = Chestnut	:				
	D. AA = Palomino; Aa = E. AA = Chestnut; Aa =							

