GENETICS AND EVOLUTION REVIEW name _____

1) Name at least 7 traits found in humans that can either be dominant or recessive. (14pts)

	Trait?	Dominant?	Recessive?			
2)	What does heredity mean	n?				
3)	How is self-pollination different from cross pollination?					
4)	List examples of traits th	at might be found in a deer				
5)	Explain the difference between DNA, chromosomes, and genes(3pts)					
6)	Give 2 examples of Alle	les (2pts)				
7) How do we show a dominant trait?						
8)	What kind of trait is mas	ked by dominant traits?				
9)	What is the difference be	etween phenotype and genotype	e?			
10)) What does it mean to be heterozygous? What is another word for heterozygous? (2pts)					
11)	If a person is Homozygo out?	us dominant for the trait of tast	ting, how will all their children turn			
12)	If you cross 2 homozygo	ous recessive people, how do al	l their children turn out?			
13)	Noses in humans use the	principle of incomplete domin	nance. What does that mean?			
14)	Define probability					
15)	What is the difference be	etween sexual reproduction and	l asexual reproduction?			
16)	How is mitosis different	from majoris?				

17) List the 5 types of	-	ion and define ea	ch:
12			
3			
4 5			
18) Sex chromosomo	es- female=	male=	=
19) What can a pedia	gree show you?		
20) When would a w	voman become a car	rier for a sex link	ed disease?
		e for one trait and	sometimes one gene codes for
			(where you live and
	Rr	Rr	
	Tu	TG	
	Rr	Rr	
23) Based on this pu	nnett square, what a	re the genotypes	of the parents?
· -	vith unattached ears They are both heter		dominant) with another person with trait. (1pt for cross)
GENOTYPES(1pt)			PHENOTYPES(1pt)
26) In cats, there are	two types of ears: no	rmal and curly. A	what color would the offspring be? curly eared cat mated with a normal ears a dominant or recessive trait?
27) What is an inheri	ted trait? Give 2 exa	mples.	

EVOLUTION REVIEW (5-2 +5-3)
29) What does evolution mean?
30) Who first came up with the idea that species change over time?
31) Give an example of selective breeding
32) What 4 things limit a population's growth?
1
3
33) Why are the dandelions in my yard short?
34) Describe how insects become resistant to pesticides
35) Describe the 4 steps of NATURAL SELECTION:
1
3
4
36) What is the definition of speciation?
37) Tell the 3 steps for a new species to develop
12
3
38) What is a mutation?
39) There are two traits for dog hair—long hair and short hair. Which trait has the adaptation if you live in northern Michigan? Florida?
40) There are 2 alleles for moth color—dark and white. If the trees are light colored, which has the adaptation?
41) There are 2 genes for beak shape in finches—long skinny beaks and short thick beaks. Which trait has the adaptation if the birds live in an area with many tough hard seeds?
42) How is natural selection different from selective breeding? How are they the same? (2pts)

28) What is an acquired trait? Give 2 examples.