

Biology Final Exam Study Guide – Second Semester 2012

Genetics and DNA

1. Principles that Mendel came up with
2. Dominant and recessive
 - A. Definitions
 - dominant:
 - recessive:
 - phenotype:
 - genotype:
 - Figure out genotypes: Homozygous and Heterozygous of eye color (B)
 - homozygous:
 - heterozygous:
 - B. Two trait genotypes and FOIL for possible gametes from parents
3. Sex-linked disorders
 - a. Interpret punnett square
 - b. Figure out phenotypes
4. Pedigrees
 - a. Know symbols – what do they mean
 - b. Interpret pedigree
 - c. Genotypes, Chance of passing on trait, parents who don't have trait
5. Nondisjunction –
6. DNA
 - a. Structures that make it up
 - b. Difference between RNA and DNA
 - c. DNA replication problem
 - d. Replication-
 - e. Transcription problem-
 - f. Cause of mutations-

Evolution

1. What is the difference between artificial and natural selection?
2. Darwin's theory of natural selection- who survives?
3. Define:
 - phenotype-
 - genotype-
 - gene pool-
 - biological fitness-

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A Gutmann



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