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#Jenny



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Biology Final Exam Study Guide

PLEASE STUDY ALL OF YOUR
NOTES/POWERPOINTS!!!! **THIS IS NOT THE TEST!!!!**

Meiosis

1. Explain how meiosis and genetics are related.
2. What are sex cells called?
3. What are haploids called?
4. Define Diploid.
5. Define haploid.
6. Explain each phase of meiosis I and II in detail. Draw each phase.
7. When does independent assortment occur?
8. What is the purpose of crossing over?
9. What is independent assortment?
10. What is crossing over? Why is it important?
11. Compare and Contrast Mitosis and Meiosis.
12. Compare and Contrast Sexual reproduction and asexual reproduction.
13. Enable to read a gel of electrophoresis.

Genetics

1. Define Genetics.
2. Who is the father of genetics?
3. What did Mendel conclude about traits from parents?
4. What is a gene?
5. What is an allele?
6. What are the five combinations of alleles?
7. What is genotype and phenotype?
8. Define true breed and hybrid.
9. Define the principle of dominance.
10. What does it mean to be heterozygous?
11. What is mean by probability?
12. What are Mendel's laws?
13. What are the exceptions to Mendel's Laws? Define each.
14. What is a karyotype?
15. What are autosomes and sex chromosomes?
16. What are sex-linked genes?
17. How can the sex of male and female be determined genetically?
18. What are the differences of sex determination in humans?

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