

Genetics (BIOL 3140)
Exam 1 study guide

Day 1: 1/21/2022. Introduction (Chapter 1)

1. What is genetics? Studies genes and how genes control traits. How traits are passed from parent to offspring. How genetic variation affects population diversity.
2. What is the difference between the following
 - a. DNA - DNA is a long molecule that contains our unique genetic code
 - b. Gene - Small sections of the DNA that codes for traits
 - c. Chromosome - the structure comprised of DNA & proteins

Day 2: 1/24/2022. Introduction cont.

3. Explain the following concepts:
 - a. Trait - Specific feature of an organism
 - b. Phenotype - Different forms of a trait (physical things blue, brown eyes)
 - c. Inheritance/heredity the transmission of genetic characteristics from one generation to the next
 - d. Variation difference in the genetic makeup (allelic composition oo genotype)
 4. Why do we study genetics? Explain using specific examples.
 - a. Genetics help us understand the causes of many disorders Ex: Albinism, Diastrophic dysplasia: tied to SLC26A2 gene on chromosome 5 (Solute carrier family 26A2 which translate sulfites {SO₃}), progeria mutation in *lamin A* (LMNA) gene
 - i. Lamin A important in the nuclear envelope of a cell's nucleus
 - b. Helps improve crops and animals (GMO) Ex: high-yielding crops (modern varieties)
 - i. Green revolution
 1. Modern varieties
 2. Mechanization
 3. Irrigation
 4. Agrochemicals
 - c. Helps develop drugs for diseases
- } makeup the revolution
5. List the three major branches (divisions) of genetics. How do they differ?
 - a. Molecular Genetics
 - Concerned with structure & function of genes
 - How genetic information is encoded
 - How DNA is replicated
 - Genetic expression
 - b. Mendelian Genetics (classical)
 - How traits are passed from parent to offspring in a **family**
 - c. Population Genetics
 - Species- individuals that interbreed and produce fertile offspring
 - Population- a group of individuals of a particular species that inhabit the same geographic area (space) at a specific time
 6. Explain why we say genetics is not new.

Genetics Study Guide Answer Key

**Thirumalaisamy P.
Velavancorresponding**



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