

This practice exam was made by an SI leader, not the professor. Please note that there is a possibility of minor mistakes, and this is not a 100% perfect exam; however, it is still a great study test. Correct answers will be released during the Exam 1 review next week. The date of the exam review will be announced soon via Webcourses.

1. What is the definition of Genetics? **[Ch 1 slide 4]**
  - a. The transmission of traits
  - b. The differences between members of the same species.
  - c. **The science of heredity and hereditary**
  - d. The interaction of genes and the environment
2. The main difference between Transmission (Classical) Genetics and Population genetics is... **[Ch 1 slide 5]**
  - a. One focuses on the gene while the other focused on the organism
  - b. **One focuses on the organism while the other focused on the population**
  - c. One focuses on the gene while the other focused on the population
  - d. One focuses on structure while the other focused on the organism
3. Select the correct base pairs. **[Ch 1 slide 6]**
  - a. A-C, T-G
  - b. A-G, T-C
  - c. **A-T, G-C**
4. Translation is a mechanism of... **[Ch 1 slide 7]**
  - a. **Sequencing amino acids to form a peptide**
  - b. Copying DNA into mRNA
  - c. Breaking apart DNA for replication preparation
  - d. Checking mRNA for any replication defects
5. Is a gene a discrete or continuous unit of inheritance? **[Ch 1 slide 8]**
  - a. **Discrete**
  - b. Continuous
6. What kind of functional products does a gene encode for? **[Ch 1 slide 9]**
  - a. RNA
  - b. Proteins
  - c. DNA
  - d. **A & B**
  - e. A & C
  - f. B & C
7. One of the key differences between Prokaryotic and Eukaryotic cells is... **[Ch 1 slide 10]**
  - a. Eukaryotic cells have a single circular chromosome and Prokaryotic cells have multiple rod-like chromosomes
  - b. **Eukaryotic cells have multiple rod-like chromosomes and Prokaryotic cells have a single circular chromosome**
  - c. Eukaryotic cells lack organelles and Prokaryotic cells have organelles
  - d. Eukaryotic cells are found in bacteria and Prokaryotic cells can be found in plants, animals, protists, and fungi

# Genetics Exam Study Guide Answers

**L Towne**



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**Genetics** Benjamin Pierce, 2004-12-24 Based on the author's more than twenty years of teaching experience *Genetics A Conceptual Approach* offers a fresh new way of introducing the major concepts and mechanics of genetics focusing students on the big picture without overwhelming them with detail

*Essential Genetics* Daniel L. Hartl, 1996 This textbook is designed for an introductory one semester or one quarter course in genetics The learning objectives are to understand the basic processes of gene transmission mutation expression and regulation to learn to formulate genetic hypotheses to develop basic skills in problem solving and to gain some sense of the social and historical context in which genetics has developed Annotation copyrighted by Book News Inc Portland OR

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**Transmission and Population Genetics** Benjamin A. Pierce, 2006-01-09 This new brief version of Benjamin Pierce's *Genetics A Conceptual Approach Second Edition* responds to a growing trend of focusing the introductory course on transmission and population genetics and covering molecular genetics separately The book is comprised of following chapters and case studies from Pierce's complete text 1 Introduction to Genetics 2 Chromosomes and Cellular Reproduction 3 Basic Principles of Heredity 4 Sex Determination and Sex Linked Characteristics 5 Extensions and Modifications of Basic Principles 6 Pedigree Analysis and Applications INTEGRATIVE CASE STUDY Phenylketonuria Part I 7 Linkage Recombination and Eukaryotic Gene Mapping 8 Bacterial and Viral Genetic Systems 9 Chromosome Variation INTEGRATIVE CASE STUDY Phenylketonuria Part II 22 Quantitative Genetics 23 Population

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