

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 tool. 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 2)
 - 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 3)
 - a. One focuses on the gene while the other focuses on the organism
 - b. **One focuses on the organism while the other focuses on the population**
 - c. One focuses on the gene while the other focuses on the population
 - d. One focuses on structure while the other focuses on the organism
3. Select the correct base pairs. (Ch 1 slide 2)
 - a. A-C, T-G
 - b. A-G, T-C
 - c. **A-T, G-C**
4. Translation is a mechanism of... (Ch 1 slide 8)
 - 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 9)
 - a. **Discrete**
 - b. Continuous
6. What kind of functional products does a gene encode for? (Ch 1 slide 14)
 - 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

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