

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

Genetics Spring Final Exam Study Guide

Rachel Sandford



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reactions of the desired truss by entering the specifications of your 3d truss in an excel file furthermore in the end the
deformed shape of the truss under the applied loads is displayed

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and find the displacements at the nodes the user has to give the coordinates of the nodes the connections of the trusses
forces and unconstrained displacements as input cite as shubham dhanale 2023

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coordinates of nodes in global coordinate system and the load acting on the structure fig b shows the nodal and element
numbering matlab code clear all clc nca nodal collection array is 2d array consisting of

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usage just run the eval1 m and eval2 m example 1

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