Biology written final practice

1. List the different components of evolution. List the scientific support for evolution. Write a paragraph that explains the process of evolution and the support of that process.
2. List the components of a population. List the components of an ecosystem. Explain how they are similar and how they are different.
3. Black fur is dominant to white fur in cats. A cross of a homozygous black cat with a white cat results in a gray cat. What is this condition called? Cross two grey cats and show the Punnett square, the genotypic and phenotypic ratio.
4. Create your own Punnett square and have another student determine the projected genotypic and phenotypic ratios of the offspring.

Read the following paragraph and answer the questions

A student studied the effect of gibberellin, a plant hormone, on the growth of corn seedlings of the same height and species. A different concentration of gibberellin in a fixed volume of water was applied to each plant in seven equal groups containing 10 plants each. These plants were maintained under the same environmental conditions for a period of 25 days. At the end of this period, the height of each plant was measured. The data are shown in the table below.



1. Using the information in the data table, construct a line graph on the grid provided. Mark an appropriate scale on each axis. Label each axis and title for the graph



1. Using one or more complete sentences, identify the control group, independent and dependent variables used in this investigation.
2. Using one or more complete sentences, explain how increasing the application amount of gibberellin form 0.05 to 0.50 mircrogram affects the height of corn seedlings.