

Bio 201 Fall 2022

Exercise 07 "Properties of Enzymes" Report Questions

Exercise Overview

- This report is worth 100 points.
- Answer the following questions and submit them to the assignment in the Week 09 Exercise 07 folder on Blackboard. The points will be distributed as follows:
 - 10 points for correct formatting
 - 20 points for correct spelling and grammar
 - 70 points for content of the answers

This report should be typed up and pieced together in a single MS-Word file. You can make data tables and the graphs in Excel and then copy and paste them over to MS-Word. **DO NOT** do the whole report in an Excel file – you will lose all your formatting points if you do. Remember to follow the formatting directions given in the general report instructions before you upload the file to the assignment on Blackboard.

1. a. (10 points) Plot the absorbance data from your group or section for the temperature-effects experiment as a scatter plot (Absorbance as a function of time). This graph will have 4 sets of data, one for each temperature treatment. The scatter plot will have 4 separate lines (one line to represent each data set). Consult your PowerPoint slides for the quiz if you are unsure of what that means.
- b. (5 points) In a separate scatter plot, plot the activity values ($\mu\text{A}/\text{sec}$) versus temperature for your group or section. The activity values are the slopes of the lines in your graph for question 1a above. This graph will have only a single data set with 4 points, each point representing the slope of one of the four data sets you plotted in 1a (above).
- c. (5 points) Interpret your results in terms of **null and alternative hypotheses**. State your null and alternate hypotheses clearly, and then write a short paragraph to explain your interpretation. (See lab powerpoints)
2. a. (10 points) Plot the absorbance data for your group or section for the pH-effects experiment as a scatter plot (Absorbance as a function of time). This graph will have 4 sets of data, one for each pH treatment. The scatter plot will have 4 separate lines (one line to represent each data set).
- b. (5 points) In a separate scatter plot, plot the activity values ($\mu\text{A}/\text{sec}$) versus pH your group or section. The activity values are the slopes of the lines in graph 2a. This graph will have only one set of data with 4 points.
- c. (5 points) Interpret the results in terms of **null and alternative hypotheses**. State your null and alternate hypotheses clearly, and then write a short paragraph to explain your interpretation.

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