

Chapter 8 Details

DETAIL B

For the following questions, you will be given a stimulus and asked to write an answer. You will be given 15 minutes to complete the questions. You will be given a stimulus and asked to write an answer. You will be given 15 minutes to complete the questions.

1. A student is studying the effect of pH on the rate of an enzyme-catalyzed reaction. The student has collected the following data:

pH	Rate of Reaction (mmol/L/min)
5.0	0.1
6.0	0.2
7.0	0.3
8.0	0.4
9.0	0.5
10.0	0.6
11.0	0.7
12.0	0.8

2. A student is studying the effect of temperature on the rate of an enzyme-catalyzed reaction. The student has collected the following data:

Temperature (°C)	Rate of Reaction (mmol/L/min)
10	0.1
20	0.2
30	0.3
40	0.4
50	0.5
60	0.6
70	0.7
80	0.8

3. A student is studying the effect of substrate concentration on the rate of an enzyme-catalyzed reaction. The student has collected the following data:

Substrate Concentration (mmol/L)	Rate of Reaction (mmol/L/min)
0.1	0.1
0.2	0.2
0.3	0.3
0.4	0.4
0.5	0.5
0.6	0.6
0.7	0.7
0.8	0.8

4. A student is studying the effect of enzyme concentration on the rate of an enzyme-catalyzed reaction. The student has collected the following data:

Enzyme Concentration (mmol/L)	Rate of Reaction (mmol/L/min)
0.1	0.1
0.2	0.2
0.3	0.3
0.4	0.4
0.5	0.5
0.6	0.6
0.7	0.7
0.8	0.8

5. A student is studying the effect of inhibitor concentration on the rate of an enzyme-catalyzed reaction. The student has collected the following data:

Inhibitor Concentration (mmol/L)	Rate of Reaction (mmol/L/min)
0.1	0.1
0.2	0.2
0.3	0.3
0.4	0.4
0.5	0.5
0.6	0.6
0.7	0.7
0.8	0.8

6. A student is studying the effect of cofactor concentration on the rate of an enzyme-catalyzed reaction. The student has collected the following data:

Cofactor Concentration (mmol/L)	Rate of Reaction (mmol/L/min)
0.1	0.1
0.2	0.2
0.3	0.3
0.4	0.4
0.5	0.5
0.6	0.6
0.7	0.7
0.8	0.8

7. A student is studying the effect of pH on the rate of an enzyme-catalyzed reaction. The student has collected the following data:

pH	Rate of Reaction (mmol/L/min)
5.0	0.1
6.0	0.2
7.0	0.3
8.0	0.4
9.0	0.5
10.0	0.6
11.0	0.7
12.0	0.8

8. A student is studying the effect of temperature on the rate of an enzyme-catalyzed reaction. The student has collected the following data:

Temperature (°C)	Rate of Reaction (mmol/L/min)
10	0.1
20	0.2
30	0.3
40	0.4
50	0.5
60	0.6
70	0.7
80	0.8

9. A student is studying the effect of substrate concentration on the rate of an enzyme-catalyzed reaction. The student has collected the following data:

Substrate Concentration (mmol/L)	Rate of Reaction (mmol/L/min)
0.1	0.1
0.2	0.2
0.3	0.3
0.4	0.4
0.5	0.5
0.6	0.6
0.7	0.7
0.8	0.8

10. A student is studying the effect of enzyme concentration on the rate of an enzyme-catalyzed reaction. The student has collected the following data:

Enzyme Concentration (mmol/L)	Rate of Reaction (mmol/L/min)
0.1	0.1
0.2	0.2
0.3	0.3
0.4	0.4
0.5	0.5
0.6	0.6
0.7	0.7
0.8	0.8

11. A student is studying the effect of inhibitor concentration on the rate of an enzyme-catalyzed reaction. The student has collected the following data:

Inhibitor Concentration (mmol/L)	Rate of Reaction (mmol/L/min)
0.1	0.1
0.2	0.2
0.3	0.3
0.4	0.4
0.5	0.5
0.6	0.6
0.7	0.7
0.8	0.8

12. A student is studying the effect of cofactor concentration on the rate of an enzyme-catalyzed reaction. The student has collected the following data:

Cofactor Concentration (mmol/L)	Rate of Reaction (mmol/L/min)
0.1	0.1
0.2	0.2
0.3	0.3
0.4	0.4
0.5	0.5
0.6	0.6
0.7	0.7
0.8	0.8

13. A student is studying the effect of pH on the rate of an enzyme-catalyzed reaction. The student has collected the following data:


pH	Rate of Reaction (mmol/L/min)
5.0	0.1
6.0	0.2
7.0	0.3
8.0	0.4
9.0	0.5
10.0	0.6
11.0	0.7
12.0	0.8

14. A student is studying the effect of temperature on the rate of an enzyme-catalyzed reaction. The student has collected the following data:

Temperature (°C)	Rate of Reaction (mmol/L/min)
10	0.1
20	0.2
30	0.3
40	0.4
5	

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