

Biology EOC Practice Test Answers

(foaming spuds, green pepper plant, birds and beaks, blueberry blues)

1) C

2) D

3) B

4) In this investigation, the prediction that if the acidity of the potato juice is decreased then the volume of the foam is increased was supported by evidence. Catalase is damaged by acid. The lowest foam volume was 24ml with the highest acidity (pH 6). However, the highest foam volume was 42 ml with the second lowest acidity (pH 8). The third highest volume was 35 ml with the second highest acidity level (pH 7) and the second lowest foam volume was 30 ml at the lowest acidity (pH 9).

5) D

6) Procedure:

1. Label 4 cylinders, one for each temperature.
2. Put 10ml of potato juice at 10 degrees C in appropriately labeled cylinder.
3. Do the same for the other cylinders (20 degrees, 30 degrees, 40 degrees)
4. Monitor the room temperature throughout to make sure it stays the same.
5. Add 5ml hydrogen peroxide to each cylinder and stir for 2 seconds.
6. Measure and record the amount of time it takes for the bubbling to stop in each cylinder as trial 1.
7. Clean all glassware.
8. Repeat steps 1-7 two more times for trials 2 and 3.
9. Calculate and record the average values for the trials.

7) A

8) B

9) C

10) One way: The weather in a greenhouse is stable; there is no rain or snow in a greenhouse. Weather conditions, such as snow can kill pepper plants and affect green pepper production.

Another way: Other animals such as birds or deer are not in the greenhouse. The absence of consumers can increase the productions of green peppers and make the results unreliable.

11) D

12) C

13) 720/80 or 9

14) A

15) A

16) B

17)

Research: What kind of worms are in the soil? Collect worms and ask science teacher what nutrients they need.

What is the best temperature? How much water is good for worms? Google worm environment

Explore Ideas:

Cover with black plastic to increase temperature. Count worms before and after putting down plastic

Add compost to the soil as food for worms