
ECOLOGICAL SURVEY OF CEDAR LAKE

OVERVIEW: We will discuss the introductory phase of this week's laboratory, "An Ecological Survey of Cedar Lake" and, at the same time, review concepts you have encountered so far this quarter.

BLUEPRINT: There is no additional assignment from your textbook. Instead, use most of your study time to review your notes, your answers to study questions, and your laboratory work from Lab #1. The only new reading involves reading over the lab procedure, "An Ecological Survey of Cedar Lake" (in your Lab Packet) and completing the assignment in **APPLICATION** below.

APPLICATION: Use your previous observations of Cedar Lake (and take a walk around the accessible part of the lake if necessary) to respond to the following questions as also stated on page 1 of the "Cedar Lake" lab procedure:

<p>NOTE: Bring the lab procedure and your responses to the questions below and be prepared to share in class.</p>
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1. Based upon your observations of Cedar Lake during your time at Cedarville, how would you rate it's "ecological health" as you would define this concept. *See also Appendix A of the "Cedar Lake" lab procedure for a chronology of events surrounding Cedar Lake.*
2. What are the boundaries that define Cedar Lake as an *ecosystem*? Explain your criteria, and why it is important to define boundaries in ecological studies.
3. What kinds of data are needed to assess the "health" of the lake and to understand causes of its present state?

LECTURE EMPHASIS will involve a scientific method approach to examine the status of Cedar Lake as an ecosystem--*i.e.* gathering observations, evaluating the present status of the lake, identifying boundaries of the system, and identifying information needed. Visuals will be presented to highlight key observations and events.

HUMAN POPULATION
and STEWARDSHIP QUESTIONNAIRE
QUESTIONNAIRE - QUIZ #2

Name _____

Lab Section (Day of Week and Hour – e.g. W--3) = _____

This questionnaire is intended to be completed when you arrive in class by scoring your response to each item in soft lead pencil on a Scantron form. The survey results will be presented later to the class only in summary form, not as individual student responses. However, if you still would rather not write your name on the Scantron, you may simply write your name on this questionnaire and turn it in separately from your Scantron. Place your completed Scantron in the location designated for your lab section.

1. How many children are there in your family--yourself plus living brothers/sisters, but not including stepchildren?

A = 1 B = 2 C = 3 D = 4 E = 5 or more

2. How many children would you like to have? [Select one choice from the above (#1)]

3. Do you think there is a human population problem in the world?

A = Yes, there is a human population problem which is evident on a worldwide scale.

B = Yes, there is a human population problem, but it exists only in certain regions.

C = I do not know if there is a human population problem.

D = No, there is not a human population problem on Earth today.

4. To what factor(s) would you attribute the human population problem?

A = A human population problem doesn't exist on Earth today.

B = Environmental resources (soil, water, space) are insufficient to support the present population of at least some regions.

C = Political and/or economic factors hinder the access to environmental resources, employment, etc.

D = Other factors are causing the human population problem. List briefly on back of Scantron.

Register your response to the statements in items #5 through #8 by selecting from the following:

A = Strongly Agree

B = Somewhat Agree

C = Somewhat Disagree

D = Strongly Disagree

5. "I believe that plants and animals were created primarily to show forth God's glory; and secondarily, for man's use through God-honoring stewardship."
6. "I believe that, although "the whole creation groans" (Romans 8:22), Christ's redemptive act was intended only to redeem ("buy back") humans, not to restore plants and animals, from the curse."
7. "I believe that Christians have a God-given responsibility to become involved in environmental causes."
8. "I believe that stewardship of the environment means the proper management of natural resources and creatures to produce benefits for all of God's creatures, including humans."

Names (Contributing Members): _____

Lab Sec (Day/Hour) _____

Date: _____

INSTRUCTIONS: This form is for you to keep in a convenient place in your Biology notebook (“journal”) and on one or two occasions during the quarter, you will be asked individually, or in cooperation with other members, to respond to one or more questions of the type given below. As with Quizzes, you must be in attendance and have your name registered on this form above to receive credit.

Example Questions:

1. In one or two sentences, state your current position on the issue we have been discussing. (Group)
 2. What is the most significant thing you have learned from BIO 100 so far?
 3. What specific aspects of the BIO 100 lectures have been most helpful to you?
 4. In what areas (concepts, learning settings) do you have most difficulty in BIO 100?
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Names (Contributing Cooperative Group Members): _____

Lab Sec (Day/Hour) _____

Date: _____

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Example Questions:

1. In one or two sentences, state your current position on the issue we have been discussing. (Group)
 2. What is the most significant thing you have learned from BIO 100 so far?
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