

REVIEW OUTLINE -- EXAM I

It is assumed that you have been completing reading and study assignments on a regular basis. If this is true, Parts I.-A below will already be complete, or nearly so. The remainder of the outline provides suggested activities for review, overall comprehension, and application.

I. RESOURCE MATERIALS

- A. Textbook
- B. Lecture-discussion notes, and reading-study notes
- C. Laboratory procedures, notes, and report

II. STUDY APPROACH

- A. KNOWLEDGE - Comprehension Level, essential for “Functional Literacy” (See “A Study Strategy” linked to “Course Schedule/Study Aids” for Introductory Lecture).

- 1. DEFINE each VOCABULARY used in this Guide accurately in words you can understand.
- 2. ILLUSTRATE each by describing an example or an illustration

- B. LEARNING GOALS – these GOALS are an expression of what is expected for you to perform well on an exam. The suggestions under Part C below illustrate the cognitive activity required for you to address the GOALS, as well as ways to assist your mastery of concepts..

- C. APPLICATION – Higher Cognitive Level involving “Structural Literacy”

- 1. For each term in Part A. above, COMPARE or CONTRAST with similar or potentially confusing ("sticky") terms -- for example:

consumer vs. decomposer
vitalism vs. mechanism
infiltration vs. leaching
organelle vs. organ

- 2. REORGANIZE your list of terms into groups of related terms (synthesis) and discuss their relationship to one another within a functioning model, organization, or process.

For example:

- a. scientific method -- data, observation, hypothesis, control, etc.
- b. food web -- energy flow, autotrophs, herbivores, carnivores, etc.

- 3. CONSTRUCT any models, graphs, diagrams, *et cetera* that illustrate systems discussed in this part of our study; for example, food web, nutrient cycles. Analyze points of human impact on these systems and predict the effects.
- 4. Identify aspects of this part of our study that require VALUE judgments. How do your presuppositions affect your interpretation of facts?