

EEB 208 (Introduction to Conservation Biology)

Sample Questions 2

The test will be organized just like the first one. Part 1 will contain multiple choice questions. Part 2 will include questions that require you to write short answers, match pairs, identify things on diagrams, define terms, fill in the blanks, etc. If I ask for examples of things, then I will be looking for something specific - e.g., a particular species, not a general group of organisms.

SAMPLE QUESTIONS:

Multiple choice questions: 3 points each

1. Which of the following are examples of exotic species?

- a. Mongoose in Hawaii.
- b. Avian malaria in Hawaii.
- c. European rabbits in France.
- d. West Nile virus in North America.
- e. Purple loosestrife in Connecticut.
- f. A single house cat on Stephen's Island.

2. A population viability analysis can include which of the following variables?

- a. Birth rates.
- b. Current population size.
- c. Inbreeding.
- d. Catastrophes.
- e. Effects of weather.
- f. Adult sex ratio.

3. Which of the following statements about the effective population size is true?

- a. It is usually 5-10 times greater than the total population size.
- b. It is usually 2-5 times greater than the total population size.
- c. It is usually larger than the total population size.
- d. It is usually the same as the total population size.
- e. It is usually smaller than the total population size.
- f. It can be calculated if you know the amount of heterozygosity in the population.

4. Populations of chimpanzees and gorillas have declined dramatically in western Africa in the last two decades. What has caused these declines?

- a. Habitat loss.
- b. Habitat fragmentation.
- c. Hunting for bushmeat.
- d. Hunting for the pet trade.
- e. Disease outbreaks.
- f. Introduced species.

Short answer questions (one or two COMPLETE sentences per question).

5. Describe a situation in which you might want to move individuals of an endangered species and introduce them to an area outside their native range. What would this be called? Give an example. (3 points).

6. Briefly describe the two paradigms for conservation biology identified by Graeme Caughley (4 points).

7. Define the following terms (6 points).

a) biological control

b) genetic drift

c) ex situ conservation