

EXAM III, 19 November 2003. Please put your NAME on the backside of the last page. Exam is worth 75 points. After you turn in your individual copy, you will work on a different portion of the exam in groups of ~four. The score for your group exam will earn you additional points on your individual exam. (See syllabus for details.)

Very Short Answer (a few words at most, 33 points)

1. According to Bill Mannan, what percent of land in the world is under some type of reserve protection? [1 point]
About: a) 5% b) 10% c) 15% d) 20% e) 25%
2. A. Give an example of a species that may very well use corridors as actual habitat. [1 point]
B. Give an example of a species that you would rarely expect to see take up long-term residence in a wildlife corridor. [1 point]
3. What is a likely setting where a conservation biologist would have to be able to quantify 1) the amount of area a species needs or 2) the number of individuals that a population would need to persist? [2 points]
4. Give an example of external influences that may affect Northern Spotted Owls according to Bill Mannan? [2 points]
5. According to the NYTimes article you read about energy sources, about 13% of the energy we use comes from nuclear and hydroelectric. Roughly what percent of our current energy comes from burning fossil fuels? What percent from solar and wind combined? [2 points]
6. The Northern Spotted Owl is an example of a(n) _____ species in the language of conservation biologists. [2 points]
7. Soils containing high amounts of _____ tend to buffer the effects of acid rain better than soils without these compounds. [2 points]
8. What are two of the three Indices of Biotic Integrity (IBI)? [4 points]
9. What is one of the two main effects of water depth on marine organisms? [2 points]
10. How many planet Earths would we need to sustain the lifestyle of 6 billion "Americans" if each American requires about 24 acres? [1 point]
a) 0.5 b) 1.0 c) 2.8 d) 3.7 e) 5.2
11. What is one major component of sustainable conservation that is absent from the Nature Conservancy's 7-step program? [2 points]
12. What are two pros and one con of connecting habitat patches with some type of corridor system? [3 points]
13. What has happened to the average temperature of the lands and waters of Europe in the last 100 years? Do we see this same pattern everywhere we look in the world? [2 points]
14. What are two of the largest determinants of an individual's ecological footprint? [4 points]
15. Why might common species and rare species NOT help scientists decide whether or not to include a specific piece of land in a conservation proposal? [2 points]

NAMES: _____ **Conservation Biology Group Questions (Exam III 19 November 2003)**

25. How did Bob Steidl and his colleagues arrive at their species distribution maps in Pima County? [10 points]

26. What makes a good oral presentation? How can oral presentations by students in this class be improved? [10 points]

27. Discuss how and why transparency and justification have helped the SDCP gain acclaim from peer reviewers. [10 points]

28. For each of the four levels of "society" we discussed in class on Monday 17 November 2003, identify two concrete things that you think would be both feasible and effective to reduce contributions to global climate change. [10 points]

506R students (15 points):

Typed take home essay due in my office (BSE1D), or via email to kebonine@email.arizona.edu, no later than 2200h on Friday 21 November 2003:

The Nature Conservancy has promoted a 7-step framework for developing regional plans for conserving biological diversity. List the seven steps and identify which, in practice, are most influenced by a) ecological science, b) economics, c) politics, or d) other (please define). Choose one of the seven steps that you decided was most influenced by "a." Choose another step that you decided was most influenced by something other than "a." For each of these two steps, discuss how a group like the Southern Arizona Home Builders Association (SAHBA) would work to oppose a plan like the SDCP. [15 points; 400 words or fewer]

506R students (15 points):

Typed take home essay due in my office (BSE1D), or via email to kebonine@email.arizona.edu, no later than 2200h on Friday 21 November 2003:

The Nature Conservancy has promoted a 7-step framework for developing regional plans for conserving biological diversity. List the seven steps and identify which, in practice, are most influenced by a) ecological science, b) economics, c) politics, or d) other (please define). Choose one of the seven steps that you decided was most influenced by "a." Choose another step that you decided was most influenced by something other than "a." For each of these two steps, discuss how a group like the Southern Arizona Home Builders Association (SAHBA) would work to oppose a plan like the SDCP. [15 points; 400 words or fewer]

506R students (15 points):

Typed take home essay due in my office (BSE1D), or via email to kebonine@email.arizona.edu, no later than 2200h on Friday 21 November 2003:

The Nature Conservancy has promoted a 7-step framework for developing regional plans for conserving biological diversity. List the seven steps and identify which, in practice, are most influenced by a) ecological science, b) economics, c) politics, or d) other (please define). Choose one of the seven steps that you decided was most influenced by "a." Choose another step that you decided was most influenced by something other than "a." For each of these two steps, discuss how a group like the Southern Arizona Home Builders Association (SAHBA) would work to oppose a plan like the SDCP. [15 points; 400 words or fewer]

506R students (15 points):

Typed take home essay due in my office (BSE1D), or via email to kebonine@email.arizona.edu, no later than 2200h on Friday 21 November 2003:

The Nature Conservancy has promoted a 7-step framework for developing regional plans for conserving biological diversity. List the seven steps and identify which, in practice, are most influenced by a) ecological science, b) economics, c) politics, or d) other (please define). Choose one of the seven steps that you decided was most influenced by "a." Choose another step that you decided was most influenced by something other than "a." For each of these two steps, discuss how a group like the Southern Arizona Home Builders Association (SAHBA) would work to oppose a plan like the SDCP. [15 points; 400 words or fewer]

506R students (15 points):

Typed take home essay due in my office (BSE1D), or via email to kebonine@email.arizona.edu, no later than 2200h on Friday 21 November 2003:

The Nature Conservancy has promoted a 7-step framework for developing regional plans for conserving biological diversity. List the seven steps and identify which, in practice, are most influenced by a) ecological science, b) economics, c) politics, or d) other (please define). Choose one of the seven steps that you decided was most influenced by "a." Choose another step that you decided was most influenced by something other than "a." For each of these two steps, discuss how a group like the Southern Arizona Home Builders Association (SAHBA) would work to oppose a plan like the SDCP. [15 points; 400 words or fewer]

Please list the members of your exam group and each person's estimated percent intellectual contribution to the group exam you turned in.

	NAME	%Contribution
1		
2		
3		
4		
5		
		<hr/>
		Total = 100%