

Exam

4505 Conservation Biology

13.5.2015

Tid/Time:

9-13

Målform/Language:

English

Sidetall/Pages:

3 with cover page

Hjelpemiddel/Aid:

Dictionary

Merknader/Notes:

All questions count the same.

Vedlegg/Appendix:

None

The results will be published on Studentweb.

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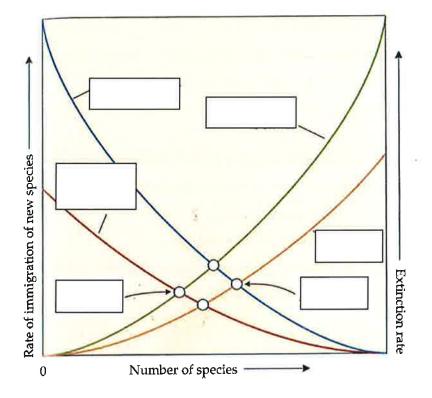
- 1. Explain the following terms (use examples we discussed in the lectures or on the excursion):
 - a) SLOSS debate
 - b) Tragedy of the commons
 - c) DNA barcoding
 - d) Red Listed species
 - e) Rare species

2. Biodiversity

- a) What are the three levels of biodiversity?
- b) Explain the levels.
- c) List five threats to biodiversity that result from human activity.

3. Extinction

- a) Explain the differences between a species being extinct, extinct in the wild, regionally extinct, extant, and "the living dead". Give species examples for each!
- b) The diagram (see under) shows the theory of the island biogeography model, fill in the gaps and explain the diagram.
- c) Explain the high number of large mammals occurring in Africa compared to the lower number in other continents.



- 4. You estimated your personal ecological footprint in the lectures.
 - a) Discuss how your footprint breaks down; what keeps your footprint high, what keeps it low?
 - b) Compare your footprint with the world's average footprint and the average Norwegian footprint.
 - c) How can extreme differences in the ecological footprints of industrial countries compared to developing countries be a problem for the protection of biodiversity?
- 5. Establishing protected areas: Because of limited natural resources and government funding, it is not possible to conserve every living species on the planet.
 - a) Which three species criteria are often used to set conservation priorities. Use the Komodo dragon as example to explain these three criteria.
 - Focal species are species that can provide the impetus to protect an area or ecosystem. Name three types of focal species and explain them by using examples.
- 6. Ex situ conservation is a supplement to in situ conservation. Zoos can be ex situ facilities.
 - a) Name two other ex situ facilities.
 - b) Discuss what role the "Bjørneparken" (bear park) in Flå plays in conservation context.
 - c) Surplus animals can be a problem in zoos. How does the Bjørneparken deal with that problem? Name four other limitations of ex situ conservation.
- 7. A nature reserve is a protection category according to the IUCN. During the excursion, we visited the Trillemarka nature reserve, which is Norways largest forest reserve.
 - a) Explain the protection category nature reserve!
 - b) Why is forest protection in Norway so important?
 - c) What were the difficulties when the Trillemarka nature reserve was established and what were the two main threats for the area?