

Team Name: _____

Score _____ / 60

2006 Wisconsin Environthon Wildlife Exam

1. For the last three and a half billion years, it is believed that species went extinct due to all of the following **EXCEPT**: (1 pt)

- A. Natural disasters
- B. Change in climate
- C. Competition
- D. Loss of genetic diversity

2. Global climate changes affect everything. Species can adapt, migrate, or perish. Give an example of a wildlife species for each of these three characteristics and briefly explain your reasoning. (1 pt for each correct wildlife species given, 2 pts for reasoning)

Adapt: _____
Reason: _____

Migrate: _____
Reason: _____

Perish: _____
Reason: _____

3. List at least two reasons why people introduce exotic species into an area. (2 pts each)

A. _____

B. _____

4. If you were a wildlife biologist, what are two ways that you would manage for feral cats in the area that you work in? (2 pts each)

A. _____

B. _____

5. **T** or **F** ? Zebra mussels, an exotic species in Wisconsin, were brought in to the state intentionally. (1 pt)

6. **T** or **F** ? Ring-necked pheasants were introduced into the U.S. intentionally. (1 pt)

7. What is the “tragedy of the commons?” (2 pts)

8. Explain “keystone species” and why they lead to higher diversity. (2 pts)

9. Explain “island biogeography” as it is related to diversity in a landscape “fragment” or “patch.” (2 pts)

10. Climate change allows certain wildlife species, such as exotics, to exist in habitats they normally wouldn't have lived in before. Why is this such a great concern to ecologists? (2 pts)

11. What is one main concern right now with global warming and polar bears? (2 pts)

12. What are the three problems caused by fragmentation? (2 pts each)

A. _____

B. _____

C. _____

13. Which of the following species have increased their numbers with human expansion? (Circle all that apply.) (3 pts)

A. Black bears

B. Grey fox

C. Northern / Southern flying squirrel

D. Raccoon

E. Fisher

F. Pine Martin

G. Wolves

H. Red fox

14. What is the only state listed endangered species that still resides permanently in WI? (1 pt)

A.) Wolves

B.) Pine martin

C.) Bobcat

D.) Black Bear

15. As a new wildlife biologist working for the DNR, you are asked to develop a management plan and education program for the public on how climate change affects wildlife species. Describe three ideas that you would implement as part of an improvement plan for wildlife species affected by climate changes. (5 pts)

16. Wildlife Vocabulary: Match the wildlife term with its correct definition: (1 pt each)

- A. Coprophagy B. Poult C. Lek
D. Diastema E. Direct registration

_____ Young turkey

_____ Open areas where breeding occurs

_____ The habit of eating specifically formed pellets

_____ Gap between the incisors and top cheek teeth

17. Wolves in Wisconsin... (1 pt)

- A. Were reintroduced from Minnesota in 1978
- B. Migrated here from Minnesota in 1978
- C. Were reintroduced from Yellowstone in 1990
- D. Escaped from captive facilities around the state

18. This year's Wisconsin Environthon falls on April 21, one day before Earth Day. Who founded Earth Day in 1970? (1 pt)

19. Scientists have recorded a decline in the thickness of the Arctic sea-ice during late summer and early autumns in past decades. What percentage of this Arctic sea-ice has disappeared? (1 pt)

- A. 10%
- B. 20%
- C. 30%
- D. 40%

20. _____ species require relatively large blocks of unaltered habitat to maintain viable populations. By managing/protecting areas for this species you presumably protect all others within these large blocks of habitat. (1 pt)

- A. Umbrella species
- B. Keystone species
- C. Indicator species
- D. Charismatic species

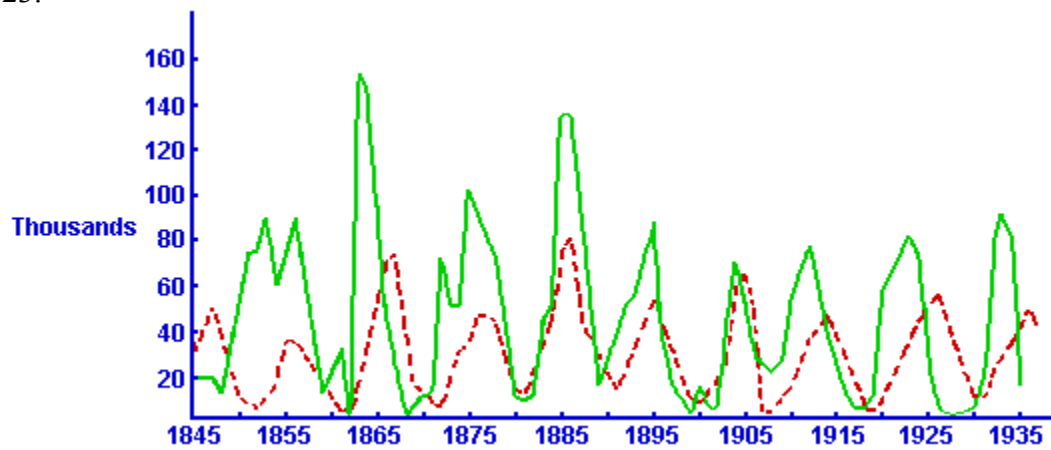
21. In what way do mink mark their territories? (1 pt)

- A. Claw marks on trees.
- B. Ground scrapes
- C. Fecal mounds
- D. Musk secretions

22. Black bear hunting in Wisconsin is... (1 pt)

- A. Illegal
- B. Open to anyone who buys a license.
- C. Open to hunters who build up “preference Points” through many years of application.
- D. Limited to hunters that use trained pack hounds.

23.



This graph depicts the Snowshoe Hare and Lynx populations in the same location at the same type. It displays an interaction between the population sizes of the two species, which line is the hare and which is the Lynx? (2 pts each)

Solid line: _____

Dotted line: _____