

Final Exam
Continuing Education Course
#321 What Every Engineer
Should Know About Endangered
Species

1. Which US president created the first National Wildlife Refuge?
 a. Franklin Roosevelt.
 b. Abraham Lincoln.
 c. Theodore Roosevelt.
 d. John F. Kennedy.

2. What agency administers the Endangered Species Act?
 a. The US Fish & Wildlife Service (USFWS).
 b. The National Oceanic and Atmospheric Administration's National Marine Fisheries Service (NMFS).
 c. Both the USFWS and the NMFS.
 d. Neither the USFWS nor the NMFS.

3. The Endangered Species Act classifies a species as “threatened” if it is “An animal or plant species in danger of extinction throughout all or a significant portion of its range.”
 a. True.
 b. False.

4. How does the New Jersey Department of Fish & Wildlife (NJDFWS) classify a species about which there is not enough information available to determine its status?
 a. Endangered.
 b. Threatened.
 c. Special Concern.
 d. Unknown.

5. Where does the federal government publish a final listing of a determination to list a species according to the Endangered Species Act?
 a. It is not available for publication.
 b. It is published in the local newspaper of the petitioner.
 c. It is published in the *Federal Register*.

6. Hybrids are protected under the Endangered Species Act.
 a. True.
 b. False.

7. Restoring a population of one endangered species can, at times, put other endangered species at risk.
 a. True.
 b. False.

8. What was the original base of the anti-cancer compound taxol?

- a. The Pacific Yew Tree.
- b. It is a synthetic compound.
- c. It is a petroleum derivative.
- d. It is a naturally occurring mineral.

9. Approximately how many people engaged in whale watching worldwide in 2008?

- a. 40,000.
- b. 4 million.
- c. 13 million.
- d. 100 million.

10. In 2009 a federal court in Maryland determined that a wind turbine project could proceed, even though it would negatively affect the endangered Indiana Bat, because the project would supply electricity for approximately 50,000 homes.

- a. True.
- b. False.

11. The US Fish & Wildlife Service defines an incidental take as “Take that results from, but is not the purpose of, carrying out an otherwise lawful activity”.

- a. True.
- b. False.

12. If an engineer wants to know if there are any federally threatened or endangered species affecting a piece of property, there is no quick way to get a preliminary answer. A qualified wildlife biologist must be brought in to do a species survey.

- a. True.
- b. False.

13. If the preliminary finding indicates that there may be threatened and endangered species on site, does that mean that no land-development activities can take place on that site?

- a. No.
- b. Yes.

14. What organization can an engineer contact to get a list of state-classified threatened and endangered species on a site in NJ.

- a. The NJ Natural Heritage Program.
- b. The US Fish & Wildlife Service.
- c. The NJ Department of State.

15. What does Federal Code Status PE refer to?

- a. A taxa (species) that is already proposed for listing under the Endangered Species Act.
- b. A taxa (species) that is formally listed as endangered.
- c. A taxa (species) that is formally listed as threatened.

16. What does a Global Element Rank G1 refer to?

- a. A species that is critically imperiled globally.
- b. A species that is imperiled globally.
- c. A species that has not been ranked.

17. If a species is classified as Q in new Jersey, what does this refer to?

- a. It is critically imperiled in the state.
- b. It is a species that has erroneously been reported as occurring in New Jersey.

- c. It is of questionable or uncertain taxonomic status.
- d. This designation is not used to classify species in New Jersey.

18. A published model that allows for an analysis of a habitat and its suitability for a particular species is called what?

- a. The Natural Heritage Program..
- b. A Habitat Suitability Index.
- c. A species of special concern.

19. Habitat Suitability Index generally range between what values.

- a. 1 to 100.
- b. 0 to 1.0.
- c. 1 to 10.
- d. A to F.

20. In the Pine Marten Habitat Suitability Index discussed in the course, what is the value of V_1 for a forest with a 90% closed canopy?

- a. 0.
- b. 0.2.
- c. 0.5.
- d. 1.0

21. In the Pine Marten Habitat Suitability Index discussed in the course, what is the value of V_4 for a forest with a 0% downed timber?

- a. 0.
- b. 0.2.
- c. 0.5.
- d. 1.0.

22. What is the name for a plan that outlines ways of maintaining, enhancing, and protecting a particular habitat type needed to protect specific threatened or endangered species.

- a. A Habitat Conservation plan.
- b. A Habitat Suitability Index.
- c. The Natural Heritage Program.
- d. Conservation Banking.

23. What US Bill makes recovery credits and tax deductions available for farmers who are engaged in activities that benefit federally listed threatened and endangered species?

- a. The Tax Code.
- b. The Endangered Species Act.
- c. The Farm Bill

24. Has the Endangered Species Act been successful in saving species from extinction?

- a. Yes.
- b. No.

25. What is the percentage of protected species that have gone extinct since passage of the Endangered Species Act in 1973?

- a. None have gone extinct.
- b. <1%.
- c. About 2%.
- d. About 5%.

