

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%.

