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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%.

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