

# Advanced Ecology: Dates, Names, and Numbers

Ecology · Practice Test · 10 Questions

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**1. In what year did Robert MacArthur and E.O. Wilson publish their seminal work, 'The Theory of Island Biogeography,'?**

- A) 1958
- B) 1963
- C) 1967
- D) 1975

**2. What was the estimated atmospheric CO<sub>2</sub> concentration in parts per million (ppm) at the beginning of the Industrial Revolution (circa 1750)?**

- A) 280 ppm
- B) 320 ppm
- C) 360 ppm
- D) 400 ppm

**3. The 'Tragedy of the Commons' concept, describing the depletion of shared resources, was popularized by Garrett Hardin in an article published in which journal in 1968?**

- A) Nature
- B) Science
- C) The American Economic Review
- D) The Journal of Ecology

**4. Alfred Lotka published his foundational work on predator-prey dynamics, the 'Lotka-Volterra equations,' in what year?**

- A) 1909
- B) 1920
- C) 1925
- D) 1930

**5. The concept of 'ecological niche' was first rigorously defined by G. Evelyn Hutchinson in a paper published in what year?**

- A) 1940
- B) 1957
- C) 1965
- D) 1972

**6. Rachel Carson's 'Silent Spring,' which brought widespread attention to the environmental impact of pesticides like DDT, was published in what year?**

- A) 1952
- B) 1958
- C) 1962
- D) 1968

**7. What is the approximate average global primary productivity (in grams of carbon per square meter per year) for terrestrial ecosystems?**

- A) 100
- B) 250
- C) 500
- D) 1000

**8. The first Earth Day, a global celebration of environmental awareness, was held on April 22nd of which year?**

- A) 1968
- B) 1970
- C) 1972
- D) 1975

**9. Eugene Odum, a pioneer in ecosystem ecology, published the first edition of his influential textbook 'Fundamentals of Ecology' in collaboration with Howard Odum in what year?**

- A) 1948
- B) 1953
- C) 1959
- D) 1964

**10. According to the Intergovernmental Panel on Climate Change (IPCC) AR6 report (2021-2023), the estimated average global surface temperature increase from pre-industrial levels (1850-1900) to 2010-2019 was approximately how many degrees Celsius?**

- A) 0.5
- B) 0.8
- C) 1.1
- D) 1.5