

# Pioneers and Milestones in Environmental Science

Environmental Science · Practice Test · 15 Questions

---

**1. Who is credited with the 1896 publication that first calculated the influence of atmospheric carbon dioxide on the Earth's surface temperature?**

- A) Svante Arrhenius
- B) Guy Stewart Callendar
- C) Charles David Keeling
- D) John Tyndall

**2. In 1960, which researcher established the first continuous monitoring station for atmospheric carbon dioxide at Mauna Loa Observatory?**

- A) Roger Revelle
- B) Hans Suess
- C) Charles David Keeling
- D) James Hansen

**3. Which scientist is recognized for the 1859 discovery that water vapor and carbon dioxide are the primary atmospheric gases responsible for the greenhouse effect?**

- A) Joseph Fourier
- B) John Tyndall
- C) Eunice Newton Foote
- D) James Hutton

**4. The first international treaty to successfully address a global environmental issue by phasing out ozone-depleting substances is known as the:**

- A) Kyoto Protocol
- B) Montreal Protocol
- C) Paris Agreement
- D) Basel Convention

**5. Who was the first scientist to propose the 'Gaia Hypothesis,' suggesting that living organisms interact with inorganic surroundings to form a self-regulating complex system?**

- A) Lynn Margulis
- B) James Lovelock
- C) Edward O. Wilson
- D) Rachel Carson

**6. In 1974, which two chemists published the seminal paper in 'Nature' identifying chlorofluorocarbons (CFCs) as the primary cause of ozone layer depletion?**

- A) Mario Molina and F. Sherwood Rowland
- B) Paul Crutzen and Harold Johnston
- C) Linus Pauling and Walter Kohn
- D) Robert Boyle and Joseph Priestley

**7. What was the first national park in the world, established in 1872 by the United States Congress?**

- A) Banff National Park
- B) Yellowstone National Park
- C) Royal National Park
- D) Kruger National Park

**8. The term 'biodiversity' was coined in 1985 by which scientist during the planning of the National Forum on BioDiversity?**

- A) Walter G. Rosen
- B) E.O. Wilson
- C) Thomas Lovejoy
- D) Norman Myers

**9. Who authored 'Silent Spring' in 1962, a foundational work that led to the first nationwide ban on DDT in the United States?**

- A) Jane Goodall
- B) Rachel Carson
- C) Aldo Leopold
- D) Wangari Maathai

**10. Which device, invented in 1957, was essential for the first satellite-based measurements of Earth's radiation budget?**

- A) Radiometer
- B) Spectrometer
- C) Lidar
- D) Seismograph

**11. The first large-scale scientific expedition to map the ocean floor and discover the mid-ocean ridge system was the:**

- A) Challenger Expedition
- B) Fram Expedition
- C) Beagle Expedition
- D) Meteor Expedition

**12. In 1972, the first major United Nations conference on international environmental issues was held in which city?**

- A) Nairobi
- B) Rio de Janeiro
- C) Stockholm
- D) Geneva

**13. Who conducted the first quantitative analysis of 'acid rain' in 1852, documenting the phenomenon in industrial Manchester?**

- A) Robert Angus Smith
- B) Gilbert White
- C) Carl Linnaeus
- D) Alexander von Humboldt

**14. The first successful commercial-scale nuclear power plant to generate electricity for a public grid was opened in 1954 in which country?**

- A) United States
- B) United Kingdom
- C) Soviet Union
- D) France

**15. Which ecological concept, describing the interrelationship between organisms and their environment, was first coined by Ernst Haeckel in 1866?**

- A) Ecosystem
- B) Biome
- C) Ecology
- D) Niche