

Pioneers and Milestones in Entomology

Entomology · Practice Test · 12 Questions

1. Who is credited with publishing 'Metamorphosis Insectorum Surinamensium' in 1705, a landmark work that fundamentally changed the understanding of insect life cycles?

- A) Maria Sibylla Merian
- B) Carl Linnaeus
- C) Jan Swammerdam
- D) Thomas Say

2. In 1669, which Dutch naturalist published 'Historia Insectorum Generalis', providing the first significant evidence that insects undergo metamorphosis rather than spontaneous generation?

- A) Antonie van Leeuwenhoek
- B) Jan Swammerdam
- C) Marcello Malpighi
- D) Francesco Redi

3. Which entomologist is recognized for inventing the 'sweep net', a foundational tool for insect collection, in the early 18th century?

- A) Reaumur
- B) Petiver
- C) Latreille
- D) Fabricius

4. Which insect was the first to have its entire genome sequenced, a major milestone in genetics published in 2000?

- A) *Apis mellifera*
- B) *Anopheles gambiae*
- C) *Drosophila melanogaster*
- D) *Tribolium castaneum*

5. The first insect to be successfully utilized for biological control in a large-scale international agricultural program was the Vedalia beetle, introduced in 1888 to combat which pest?

- A) Cottony cushion scale
- B) Codling moth
- C) Locust swarm
- D) European corn borer

6. Who was the first person to describe the process of 'eusociality' in insects, specifically in ants, in his 1858 treatise?

- A) E.O. Wilson
- B) Charles Darwin
- C) Pierre Huber
- D) Jean-Henri Fabre

7. In 1827, which scientist coined the term 'entomology' in his definitive publication, 'An Introduction to Entomology'?

- A) William Kirby and William Spence
- B) John Curtis
- C) Thomas Say
- D) Alexander Macleay

8. Which scientist conducted the first systematic study of honey bee 'waggle dance' communication, a discovery for which they later won a Nobel Prize?

- A) Karl von Frisch
- B) Nikolaas Tinbergen
- C) Konrad Lorenz
- D) Martin Lindauer

9. The 'Munsell Color System' is widely used in entomology for objective description, but which entomologist was the first to propose a standard color nomenclature system for natural history in 1814?

- A) Patrick Syme
- B) Robert Ridgway
- C) Jean-Baptiste Lamarck
- D) Werner

10. In 1948, which entomologist pioneered the concept of 'Integrated Pest Management' (IPM) in their work 'The Cotton Insects of California'?

- A) A.E. Michelbacher
- B) Rachel Carson
- C) Paul Müller
- D) C.V. Riley

11. The first fossilized insect specimen described in scientific literature is often attributed to the works of which 17th-century polymath?

- A) Robert Hooke
- B) Athanasius Kircher
- C) Gottfried Leibniz
- D) Ole Worm

12. Who developed the first systematic classification of insects based on mouthparts, which revolutionized taxonomy in the late 18th century?

- A) Johann Christian Fabricius
- B) Pierre Latreille
- C) Charles De Geer
- D) Carl Linnaeus