

Pioneers and Milestones in Entomology

Entomology · Answer Key · 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