

18.2 Modern Evolutionary Classification

Evolutionary Classification

1. The modern evolutionary classification was introduced by a scientist called:
2. The goal of phylogenetic systematics (evolutionary classification) is based on grouping organisms based on:
3. Which group of organisms would have the most recent common ancestor: the members of a clade corresponding to a genus or the members of a clade corresponding to an order?

For Questions 4 –7, complete each statement by writing the correct word or words.

4. All species descended from a(n) _____ are part of a monophyletic group.
5. _____ is the study of how living and extinct organisms are related to one another.
6. A clade includes a common ancestor and all its descendants, living or _____.

Cladograms

For Questions 7–9, complete each statement by writing the correct word or words.

7. A diagram that shows the evolutionary relationships among a group of organisms is called a(n) _____.
8. The place where the ancestral lineage splits on a cladogram is called a fork, or a(n) _____.
9. Characteristics shared by members of a clade and only by members of that clade are called _____.

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