

# Biology 20 Phylogenies & the History of Life MCQ

Biology 20 Evolution

Author: OpenStax College

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## 4. Chapter: Biology 20 Phylogenies & the History of Life MCQ

### 1. Biology 20 Phylogenies & the History of Life MCQ Questions

#### 4.1.1. What is used to determine phylogeny?

Author: OpenStax College

What is used to determine phylogeny?

Please choose only one answer:

- mutations
- DNA
- evolutionary history
- organisms on earth

Check the answer of this question online at QuizOver.com:

Question: [What is used to determine phylogeny OpenStax College Biology 20 Quest](#)

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## 4.1.2. What do scientists in the field of systematics accomplish?

Author: OpenStax College

What do scientists in the field of systematics accomplish?

Please choose only one answer:

- discover new fossil sites
- organize and classify organisms
- name new species
- communicate among field biologists

Check the answer of this question online at QuizOver.com:

Question: [What do scientists in the field of OpenStax College Biology 20 Quest](#)

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### 4.1.3. Which statement about the taxonomic classification system is correct?

Author: OpenStax College

Which statement about the taxonomic classification system is correct?

Please choose only one answer:

- There are more domains than kingdoms.
- Kingdoms are the top category of classification.
- Classes are divisions of orders.
- Subspecies are the most specific category of classification.

Check the answer of this question online at QuizOver.com:

Question: [Which statement about the taxonomic OpenStax College Biology 20 Quest](#)

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#### 4.1.4. On a phylogenetic tree, which term refers to lineages that diverged...

Author: OpenStax College

On a phylogenetic tree, which term refers to lineages that diverged from the same place?

Please choose only one answer:

- sister taxa
- basal taxa
- rooted taxa
- dichotomous taxa

Check the answer of this question online at QuizOver.com:

Question: [On a phylogenetic tree which term refers OpenStax College Biology](#)

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#### 4.1.5. Which statement about analogies is correct?

Author: OpenStax College

Which statement about analogies is correct?

Please choose only one answer:

- They occur only as errors.
- They are synonymous with homologous traits.
- They are derived by similar environmental constraints.
- They are a form of mutation.

Check the answer of this question online at QuizOver.com:

Question: [Which statement about analogies is correct OpenStax College Biology](#)

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#### 4.1.6. What do scientists use to apply cladistics?

Author: OpenStax College

What do scientists use to apply cladistics?

Please choose only one answer:

- homologous traits
- homoplasies
- analogous traits
- monophyletic groups

Check the answer of this question online at QuizOver.com:

Question: [What do scientists use to apply cladistics OpenStax College Biology](#)

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#### 4.1.7. What is true about organisms that are a part of the same clade?

Author: OpenStax College

What is true about organisms that are a part of the same clade?

Please choose only one answer:

- They all share the same basic characteristics.
- They evolved from a shared ancestor.
- They usually fall into the same classification taxa.
- They have identical phylogenies.

Check the answer of this question online at QuizOver.com:

Question: [What is true about organisms that are a OpenStax College Biology](#)

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#### 4.1.8. Why do scientists apply the concept of maximum parsimony?

Author: OpenStax College

Why do scientists apply the concept of maximum parsimony?

Please choose only one answer:

- to decipher accurate phylogenies
- to eliminate analogous traits
- to identify mutations in DNA codes
- to locate homoplasies

Check the answer of this question online at QuizOver.com:

Question: [Why do scientists apply the concept of OpenStax College Biology 2](#)

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#### 4.1.9. The transfer of genes by a mechanism not involving asexual reproduc...

Author: OpenStax College

The transfer of genes by a mechanism not involving asexual reproduction is called:

Please choose only one answer:

- meiosis
- web of life
- horizontal gene transfer
- gene fusion

Check the answer of this question online at QuizOver.com:

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#### 4.1.10. Particles that transfer genetic material from one species to anothe...

Author: OpenStax College

Particles that transfer genetic material from one species to another, especially in marine prokaryotes:

Please choose only one answer:

- horizontal gene transfer
- lateral gene transfer
- genome fusion device
- gene transfer agents

Check the answer of this question online at QuizOver.com:

Question: [Particles that transfer genetic material OpenStax College Biology](#)

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#### 4.1.11. What does the trunk of the classic phylogenetic tree represent?

Author: OpenStax College

What does the trunk of the classic phylogenetic tree represent?

Please choose only one answer:

- single common ancestor
- pool of ancestral organisms
- new species
- old species

Check the answer of this question online at QuizOver.com:

Question: [What does the trunk of the classic OpenStax College Biology 20 Quest](#)

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#### 4.1.12. Which phylogenetic model proposes that all three domains of life ev...

Author: OpenStax College

Which phylogenetic model proposes that all three domains of life evolved from a pool of primitive prokaryotes?

Please choose only one answer:

- tree of life
- web of life
- ring of life
- network model

Check the answer of this question online at QuizOver.com:

Question: [Which phylogenetic model proposes that OpenStax College Biology 2](#)

Flashcards:

<http://www.quizover.com/flashcards/which-phylogenetic-model-proposes-that-openstax-college-biology-2?pdf=1505>

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