# Biology 22 Prokaryotes Bacteria and Archaea MCQ

Author: OpenStax College

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4. Chapter: Biology 22 Prokaryotes Bacteria and Archaea MCQ
1. Biology 22 Prokaryotes Bacteria and Archaea MCQ Questions
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4.1.1. The first forms of life on Earth were thought to be
Author: OpenStax College
The first forms of life on Earth were thought to be
Please choose only one answer:  • single-celled plants  • prokaryotes  • insects  • large animals such as dinosaurs
Check the answer of this question online at QuizOver.com: Question: The first forms of life on Earth were OpenStax College Biology 22  Flashcards:
http://www.quizover.com/flashcards/the-first-forms-of-life-on-earth-were-openstax-college-biology-22?pdf=1505  Interactive Question: http://www.quizover.com/question/the-first-forms-of-life-on-earth-were-openstax-college-biology-22?pdf=1505
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4.1.2. Microbial mats
Author: OpenStax College
Microbial mats
<ul> <li>Please choose only one answer:</li> <li>are the earliest forms of life on Earth</li> <li>obtained their energy and food from hydrothermal vents</li> <li>are multi-layered sheet of prokaryotes including mostly bacteria but also archaea</li> <li>all of the above</li> </ul>
Check the answer of this question online at QuizOver.com:  Question: Microbial mats . OpenStax College Biology 22 Prokaryotes Bacteria
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# 4.1.3. The first organisms that oxygenated the atmosphere were

# Author: OpenStax College

The first organisms that oxygenated the atmosphere were

Please choose only one answer:

- cyanobacteria
- · phototrophic organisms
- anaerobic organisms
- all of the above

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

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# Interactive Question:

http://www.quizover.com/question/the-first-organisms-that-oxygenated-the-openstax-college-biology?pdf=1505

4.1.4. Halophiles are organisms that require
Author: OpenStax College
Halophiles are organisms that require
<ul> <li>Please choose only one answer:</li> <li>a salt concentration of at least 0.2 M</li> <li>high sugar concentration</li> <li>the addition of halogens</li> <li>all of the above</li> </ul>
Check the answer of this question online at QuizOver.com: Question: Halophiles are organisms that require . OpenStax College Biology
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4.1.5. The presence of a membrane-enclosed nucleus is a characteristic of ...

# Author: OpenStax College

The presence of a membrane-enclosed nucleus is a characteristic of \_\_\_\_\_\_

Please choose only one answer:

- prokaryotic cells
- · eukaryotic cells
- all cells
- viruses

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

Question: The presence of a membrane-enclosed nucleus OpenStax College Biology

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# Interactive Question:

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# 4.1.6. Which of the following consist of prokaryotic cells?

# Author: OpenStax College

Which of the following consist of prokaryotic cells?

Please choose only one answer:

- bacteria and fungi
- · archaea and fungi
- · protists and animals
- bacteria and archaea

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

Question: Which of the following consist of prokaryotic OpenStax College Biology

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# Interactive Question:

http://www.quizover.com/question/which-of-the-following-consist-of-prokaryotic-openstax-college-biology?pdf=1505

4.1.7. The cell wall is
Author: OpenStax College
The cell wall is
Please choose only one answer:  interior to the cell membrane  exterior to the cell membrane  a part of the cell membrane  interior or exterior, depending on the particular cell
Check the answer of this question online at QuizOver.com: Question: The cell wall is . OpenStax College Biology 22 Prokaryotes Bacteria
Flashcards: <a href="http://www.quizover.com/flashcards/the-cell-wall-is-openstax-college-biology-22-prokaryotes-bacteria?pdf=1505">http://www.quizover.com/flashcards/the-cell-wall-is-openstax-college-biology-22-prokaryotes-bacteria?pdf=1505</a> Interactive Question:
http://www.quizover.com/question/the-cell-wall-is-openstax-college-biology-22-prokaryotes-bacteria?pdf=1505

4.1.8. Organisms most likely to be found in extreme environments are
Author: OpenStax College
Organisms most likely to be found in extreme environments are
Please choose only one answer:  • fungi
• bacteria
• viruses
• archaea
Check the answer of this question online at QuizOver.com: Question: Organisms most likely to be found in OpenStax College Biology 22
Flashcards: <a href="http://www.quizover.com/flashcards/organisms-most-likely-to-be-found-in-openstax-college-biology-22?pdf=1505">http://www.quizover.com/flashcards/organisms-most-likely-to-be-found-in-openstax-college-biology-22?pdf=1505</a>
Interactive Question: <a href="http://www.quizover.com/question/organisms-most-likely-to-be-found-in-openstax-college-biology-22?pdf=1505">http://www.quizover.com/question/organisms-most-likely-to-be-found-in-openstax-college-biology-22?pdf=1505</a>

4.1.9. Prokaryotes stain as Gram-positive or Gramnegative because of diffe...

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Autho	nr. ( )r	enSt:	ax Cc	illeae

Prokaryotes stain as Gram-positive or Gramnegative because of differences in the cell \_\_\_\_\_.

Please choose only one answer:

- wall
- cytoplasm
- nucleus
- chromosome

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

Question: Prokaryotes stain as Gram-positive or OpenStax College Biology 22

### Flashcards:

http://www.quizover.com/flashcards/prokaryotes-stain-as-gram-positive-or-openstax-college-biology-22?pdf=1505

# Interactive Question:

http://www.quizover.com/question/prokaryotes-stain-as-gram-positive-or-openstax-college-biology-22?pdf=1505

Pseudopeptidoglycan is a characteristic of the walls of  Please choose only one answer:  • eukaryotic cells • bacterial prokaryotic cells • archaean prokaryotic cells • bacterial and archaean prokaryotic cells • bacterial and archaean prokaryotic cells • bacterial and archaean prokaryotic cells  Check the answer of this question online at QuizOver.com: Question: Pseudopeptidoglycan is a characteristic OpenStax College Biology Flashcards: http://www.quizover.com/flashcards/pseudopeptidoglycan-is-a-characteristic-openstax-college-biology?pdf=1505  Interactive Question: http://www.quizover.com/question/pseudopeptidoglycan-is-a-characteristic-openstax-college-biology?pdf=1505	4.1.10. Pseudopeptidoglycan is a characteristic of the walls of
Please choose only one answer:  • eukaryotic cells  • bacterial prokaryotic cells  • archaean prokaryotic cells  • bacterial and archaean prokaryotic cells  Check the answer of this question online at QuizOver.com: Question: Pseudopeptidoglycan is a characteristic OpenStax College Biology  Flashcards: http://www.quizover.com/flashcards/pseudopeptidoglycan-is-a-characteristic-openstax-college-biology?pdf=1505  Interactive Question:	Author: OpenStax College
<ul> <li>eukaryotic cells</li> <li>bacterial prokaryotic cells</li> <li>archaean prokaryotic cells</li> <li>bacterial and archaean prokaryotic cells</li> </ul> Check the answer of this question online at QuizOver.com: Question: Pseudopeptidoglycan is a characteristic OpenStax College Biology Flashcards: <ul> <li>http://www.quizover.com/flashcards/pseudopeptidoglycan-is-a-characteristic-openstax-college-biology?pdf=1505</li> </ul> Interactive Question:	Pseudopeptidoglycan is a characteristic of the walls of
<ul> <li>bacterial prokaryotic cells</li> <li>archaean prokaryotic cells</li> <li>bacterial and archaean prokaryotic cells</li> </ul> Check the answer of this question online at QuizOver.com: Question: Pseudopeptidoglycan is a characteristic OpenStax College Biology Flashcards: <ul> <li>http://www.quizover.com/flashcards/pseudopeptidoglycan-is-a-characteristic-openstax-college-biology?pdf=1505</li> </ul> Interactive Question:	Please choose only one answer:
<ul> <li>archaean prokaryotic cells</li> <li>bacterial and archaean prokaryotic cells</li> <li>Check the answer of this question online at QuizOver.com:         Question: Pseudopeptidoglycan is a characteristic OpenStax College Biology     </li> <li>Flashcards:         http://www.quizover.com/flashcards/pseudopeptidoglycan-is-a-characteristic-openstax-college-biology?pdf=1505     </li> <li>Interactive Question:</li> </ul>	eukaryotic cells
<ul> <li>bacterial and archaean prokaryotic cells</li> <li>Check the answer of this question online at QuizOver.com:         Question: Pseudopeptidoglycan is a characteristic OpenStax College Biology</li> <li>Flashcards:         <ul> <li>http://www.quizover.com/flashcards/pseudopeptidoglycan-is-a-characteristic-openstax-college-biology?pdf=1505</li> </ul> </li> <li>Interactive Question:</li> </ul>	
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4.1.11. The lipopolysaccharide layer (LPS) is a characteristic of the wall ...

# Author: OpenStax College

The lipopolysaccharide layer (LPS) is a characteristic of the wall of \_\_\_\_\_

Please choose only one answer:

- archaean cells
- Gram-negative bacteria
- · bacterial prokaryotic cells
- eukaryotic cells

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

Question: The lipopolysaccharide layer LPS is a OpenStax College Biology 22

### Flashcards:

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# Interactive Question:

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# 4.1.12. Which of the following elements is not a micronutrient?

# Author: OpenStax College

Which of the following elements is not a micronutrient?

Please choose only one answer:

- boron
- calcium
- chromium
- manganese

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

Question: Which of the following elements is not a OpenStax College Biology

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4.1.13. Prokaryotes that obtain their energy from chemical compounds are ca...

# Author: OpenStax College

Prokaryotes that obtain their energy from chemical compounds are called \_\_\_\_\_\_

Please choose only one answer:

- phototrophs
- auxotrophs
- chemotrophs
- lithotrophs

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

Question: Prokaryotes that obtain their energy from OpenStax College Biology

### Flashcards:

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4.1.14. Ammonification is the process by which
Author: OpenStax College
Ammonification is the process by which
<ul> <li>Please choose only one answer:</li> <li>ammonia is released during the decomposition of nitrogen-containing organic compounds</li> <li>ammonium is converted to nitrite and nitrate in soils</li> <li>nitrate from soil is transformed to gaseous nitrogen compounds such as NO, N2O, and N2</li> <li>gaseous nitrogen is fixed to yield ammonia</li> </ul>
Check the answer of this question online at QuizOver.com: Question: Ammonification is the process by which . OpenStax College Biology
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4.1.15. Plants use carbon dioxide from the air and are therefore called
Author: OpenStax College
Plants use carbon dioxide from the air and are therefore called
Please choose only one answer:
• consumers
• producers
• decomposer
carbon fixers
Check the answer of this question online at QuizOver.com:  Question: Plants use carbon dioxide from the air OpenStax College Biology 2
Flashcards: <a href="http://www.quizover.com/flashcards/plants-use-carbon-dioxide-from-the-air-openstax-college-biology-2?pdf=1505">http://www.quizover.com/flashcards/plants-use-carbon-dioxide-from-the-air-openstax-college-biology-2?pdf=1505</a>
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Author: OpenStax College A disease that is constantly present in a population is called  Please choose only one answer:     pandemic     epidemic     endemic     re-emerging  Check the answer of this question online at QuizOver.com: Question: A disease that is constantly present in OpenStax College Biology Flashcards:  Flashcards:  Interactive Question:  http://www.quizover.com/question/a-disease-that-is-constantly-present-in-openstax-college-biology?pdf=1505  Interactive Question:  http://www.quizover.com/question/a-disease-that-is-constantly-present-in-openstax-college-biology?pdf=1505	A disease that is constantly present in a population is called  Please choose only one answer:  • pandemic  • epidemic
Please choose only one answer:  • pandemic  • epidemic  • endemic  • re-emerging  Check the answer of this question online at QuizOver.com: Question: A disease that is constantly present in OpenStax College Biology  Flashcards: http://www.quizover.com/flashcards/a-disease-that-is-constantly-present-in-openstax-college-biology?pdf=1505  Interactive Question:	Please choose only one answer:  • pandemic  • epidemic
<ul> <li>pandemic</li> <li>epidemic</li> <li>endemic</li> <li>re-emerging</li> </ul> Check the answer of this question online at QuizOver.com: Question: A disease that is constantly present in OpenStax College Biology Flashcards: http://www.quizover.com/flashcards/a-disease-that-is-constantly-present-in-openstax-college-biology?pdf=1505 Interactive Question:	<ul><li>pandemic</li><li>epidemic</li></ul>
<ul> <li>epidemic</li> <li>endemic</li> <li>re-emerging</li> </ul> Check the answer of this question online at QuizOver.com: Question: A disease that is constantly present in OpenStax College Biology Flashcards: <ul> <li>http://www.quizover.com/flashcards/a-disease-that-is-constantly-present-in-openstax-college-biology?pdf=1505</li> </ul> Interactive Question:	• epidemic
<ul> <li>endemic</li> <li>re-emerging</li> </ul> Check the answer of this question online at QuizOver.com: Question: A disease that is constantly present in OpenStax College Biology Flashcards: <ul> <li>http://www.quizover.com/flashcards/a-disease-that-is-constantly-present-in-openstax-college-biology?pdf=1505</li> </ul> Interactive Question:	·
<ul> <li>re-emerging</li> <li>Check the answer of this question online at QuizOver.com:         Question: A disease that is constantly present in OpenStax College Biology</li> <li>Flashcards:         <ul> <li>http://www.quizover.com/flashcards/a-disease-that-is-constantly-present-in-openstax-college-biology?pdf=1505</li> </ul> </li> <li>Interactive Question:</li> </ul>	• endemic
Check the answer of this question online at QuizOver.com: Question: A disease that is constantly present in OpenStax College Biology  Flashcards: <a href="http://www.quizover.com/flashcards/a-disease-that-is-constantly-present-in-openstax-college-biology?pdf=1505">http://www.quizover.com/flashcards/a-disease-that-is-constantly-present-in-openstax-college-biology?pdf=1505</a> Interactive Question:	
Question: A disease that is constantly present in OpenStax College Biology  Flashcards: <a href="http://www.quizover.com/flashcards/a-disease-that-is-constantly-present-in-openstax-college-biology?pdf=1505">http://www.quizover.com/flashcards/a-disease-that-is-constantly-present-in-openstax-college-biology?pdf=1505</a> Interactive Question:	• re-emerging
Question: A disease that is constantly present in OpenStax College Biology  Flashcards: <a href="http://www.quizover.com/flashcards/a-disease-that-is-constantly-present-in-openstax-college-biology?pdf=1505">http://www.quizover.com/flashcards/a-disease-that-is-constantly-present-in-openstax-college-biology?pdf=1505</a> Interactive Question:	
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### 4.1.17. Which of the statements about biofilms is incorrect?

# Author: OpenStax College

Which of the statements about biofilms is incorrect?

Please choose only one answer:

- Biofilms are considered responsible for diseases such as cystic fibrosis.
- Biofilms produce dental plaque, and colonize catheters and prostheses.
- Biofilms colonize open wounds and burned tissue.
- All statements are incorrect.

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

Question: Which of the statements about biofilms is OpenStax College Biology

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### 4.1.18. Which of these statements is true?

### Author: OpenStax College

Which of these statements is true?

### Please choose only one answer:

- An antibiotic is any substance produced by a organism that is antagonistic to the growth of prokaryotes.
- An antibiotic is any substance produced by a prokaryote that is antagonistic to the growth of other viruses.
- An antibiotic is any substance produced by a prokaryote that is antagonistic to the growth of eukaryotic cells.
- An antibiotic is any substance produced by a prokaryote that prevents growth of the same prokaryote.

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

Question: Which of these statements is true OpenStax College Biology 22 Quest

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# 4.1.19. Which of these occurs through symbiotic nitrogen fixation?

# Author: OpenStax College

Which of these occurs through symbiotic nitrogen fixation?

Please choose only one answer:

- The plant benefits from using an endless source of nitrogen.
- The soil benefits from being naturally fertilized.
- Bacteria benefit from using photosynthates from the plant.
- All of the above occur.

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

Question: Which of these occurs through symbiotic OpenStax College Biology

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http://www.quizover.com/flashcards/which-of-these-occurs-through-symbiotic-openstax-college-biology?pdf=1505

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http://www.quizover.com/question/which-of-these-occurs-through-symbiotic-openstax-college-biology?pdf=1505

4.1.20. Synthetic compounds found in an organism but not normally produced ... Author: OpenStax College Synthetic compounds found in an organism but not normally produced or expected to be present in that organism are called Please choose only one answer: pesticides bioremediators recalcitrant compounds xenobiotics Check the answer of this question online at QuizOver.com: Question: Synthetic compounds found in an organism OpenStax College Biology Flashcards: http://www.quizover.com/flashcards/synthetic-compounds-found-in-an-organism-openstax-college-biology?pdf=1505 Interactive Question: http://www.quizover.com/question/synthetic-compounds-found-in-an-organism-openstax-college-biology?pdf=1505