

# Biology 02

# The Chemical

# Foundation

# of Life MCQ

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## 4. Chapter: Biology 02 The Chemical Foundation of Life MCQ

### 1. Biology 02 The Chemical Foundation of Life MCQ Questions

4.1.1. If xenon has an atomic number of 54 and a mass number of 108, how m...

Author: OpenStax College

If xenon has an atomic number of 54 and a mass number of 108, how many neutrons does it have?

Please choose only one answer:

- 54
- 27
- 100
- 108

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Question: [If xenon has an atomic number of 54 and OpenStax College Biology](#)

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#### 4.1.2. Atoms that vary in the number of neutrons found in their nuclei are...

Author: OpenStax College

Atoms that vary in the number of neutrons found in their nuclei are called \_\_\_\_\_.

Please choose only one answer:

- ions
- neutrons
- neutral atoms
- isotopes

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

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### 4.1.3. Potassium has an atomic number of 19. What is its electron configur...

Author: OpenStax College

Potassium has an atomic number of 19. What is its electron configuration?

Please choose only one answer:

- shells 1 and 2 are full, and shell 3 has nine electrons
- shells 1, 2 and 3 are full and shell 4 has three electrons
- shells 1, 2 and 3 are full and shell 4 has one electron
- shells 1, 2 and 3 are full and no other electrons are present

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

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#### 4.1.4. Which type of bond represents a weak chemical bond?

Author: OpenStax College

Which type of bond represents a weak chemical bond?

Please choose only one answer:

- hydrogen bond
- atomic bond
- covalent bond
- nonpolar covalent bond

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

Question: [Which type of bond represents a weak OpenStax College Biology 02](#)

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#### 4.1.5. Which of the following statements is not true?

Author: OpenStax College

Which of the following statements is not true?

Please choose only one answer:

- Water is polar.
- Water stabilizes temperature.
- Water is essential for life.
- Water is the most abundant molecule in the Earth's atmosphere.

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4.1.6. When acids are added to a solution, the pH should \_\_\_\_\_.

Author: OpenStax College

When acids are added to a solution, the pH should \_\_\_\_\_.

Please choose only one answer:

- decrease
- increase
- stay the same
- cannot tell without testing

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

Question: [When acids are added to a solution the pH OpenStax College Biology](#)

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#### 4.1.7. A molecule that binds up excess hydrogen ions in a solution is call...

Author: OpenStax College

A molecule that binds up excess hydrogen ions in a solution is called a(n) \_\_\_\_\_.

Please choose only one answer:

- acid
- isotope
- base
- donator

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

Question: [A molecule that binds up excess hydrogen OpenStax College Biology](#)

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#### 4.1.8. Which of the following statements is true?

Author: OpenStax College

Which of the following statements is true?

Please choose only one answer:

- Acids and bases cannot mix together.
- Acids and bases will neutralize each other.
- Acids, but not bases, can change the pH of a solution.
- Acids donate hydroxide ions (OH<sup>-</sup>); bases donate hydrogen ions (H<sup>+</sup>).

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

Question: [Which of the following statements is true OpenStax College Biology](#)

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4.1.9. Each carbon molecule can bond with as many as \_\_\_\_\_ other atom(s)...

Author: OpenStax College

Each carbon molecule can bond with as many as \_\_\_\_\_ other atom(s) or molecule(s).

Please choose only one answer:

- one
- two
- six
- four

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

Question: [Each carbon molecule can bond with as many OpenStax College Biology](#)

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#### 4.1.10. Which of the following is not a functional group that can bond with...

Author: OpenStax College

Which of the following is not a functional group that can bond with carbon?

Please choose only one answer:

- sodium
- hydroxyl
- phosphate
- carbonyl

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

Question: [Which of the following is not a functional OpenStax College Biology](#)

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