

Biology 07

Cellular

Respiration

MCQ

Author: OpenStax College

Published 2015

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4. Chapter: Biology 07 Cellular Respiration MCQ

1. Biology 07 Cellular Respiration MCQ Questions

4.1.1. The energy currency used by cells is _____.

Author: OpenStax College

The energy currency used by cells is _____.

Please choose only one answer:

- ATP
- ADP
- AMP
- adenosine

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

Question: [The energy currency used by cells is . OpenStax College Biology 0](#)

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4.1.2. A reducing chemical reaction _____.

Author: OpenStax College

A reducing chemical reaction _____.

Please choose only one answer:

- reduces the compound to a simpler form
- adds an electron to the substrate
- removes a hydrogen atom from the substrate
- is a catabolic reaction

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

Question: [A reducing chemical reaction . OpenStax College Biology 07 Cellular](#)

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4.1.3. During the second half of glycolysis, what occurs?

Author: OpenStax College

During the second half of glycolysis, what occurs?

Please choose only one answer:

- ATP is used up.
- Fructose is split in two.
- ATP is made.
- Glucose becomes fructose.

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

Question: [During the second half of glycolysis what OpenStax College Biology](#)

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4.1.4. What is removed from pyruvate during its conversion into an acetyl ...

Author: OpenStax College

What is removed from pyruvate during its conversion into an acetyl group?

Please choose only one answer:

- oxygen
- ATP
- B vitamin
- carbon dioxide

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

Question: [What is removed from pyruvate during its OpenStax College Biology](#)

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4.1.5. What do the electrons added to NAD+ do?

Author: OpenStax College

What do the electrons added to NAD+ do?

Please choose only one answer:

- They become part of a fermentation pathway.
- They go to another pathway for ATP production.
- They energize the entry of the acetyl group into the citric acid cycle.
- They are converted to NADP.

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

Question: [What do the electrons added to NAD do OpenStax College Biology 07](#)

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4.1.6. GTP or ATP is produced during the conversion of _____.

Author: OpenStax College

GTP or ATP is produced during the conversion of _____.

Please choose only one answer:

- isocitrate into a-ketoglutarate
- succinyl CoA into succinate
- fumarate into malate
- malate into oxaloacetate

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

Question: [GTP or ATP is produced during the conversion OpenStax College Biology](#)

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4.1.7. How many NADH molecules are produced on each turn of the citric aci...

Author: OpenStax College

How many NADH molecules are produced on each turn of the citric acid cycle?

Please choose only one answer:

- one
- two
- three
- four

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

Question: [How many NADH molecules are produced on OpenStax College Biology](#)

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4.1.8. What compound receives electrons from NADH?

Author: OpenStax College

What compound receives electrons from NADH?

Please choose only one answer:

- FMN
- ubiquinone
- cytochrome c1
- oxygen

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

Question: [What compound receives electrons from OpenStax College Biology 07](#)

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4.1.9. Chemiosmosis involves _____.

Author: OpenStax College

Chemiosmosis involves _____.

Please choose only one answer:

- the movement of electrons across the cell membrane
- the movement of hydrogen atoms across a mitochondrial membrane
- the movement of hydrogen ions across a mitochondrial membrane
- the movement of glucose through the cell membrane

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

Question: [Chemiosmosis involves . OpenStax College Biology 07 Cellular Quest](#)

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4.1.10. Which of the following fermentation methods can occur in animal ske...

Author: OpenStax College

Which of the following fermentation methods can occur in animal skeletal muscles?

Please choose only one answer:

- lactic acid fermentation
- alcohol fermentation
- mixed acid fermentation
- propionic fermentation

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

Question: [Which of the following fermentation methods OpenStax College Biology](#)

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4.1.11. A major connection for sugars in glycolysis is _____.

Author: OpenStax College

A major connection for sugars in glycolysis is _____.

Please choose only one answer:

- glucose-6-phosphate
- fructose-1,6-bisphosphate
- dihydroxyacetone phosphate
- phosphoenolpyruvate

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

Question: [A major connection for sugars in glycolysis OpenStax College Biology](#)

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4.1.12. Beta-oxidation is _____.

Author: OpenStax College

Beta-oxidation is _____.

Please choose only one answer:

- the breakdown of sugars
- the assembly of sugars
- the breakdown of fatty acids
- the removal of amino groups from amino acids

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

Question: [Beta-oxidation is . OpenStax College Biology 07 Cellular Respiration](#)

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Interactive Question:

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4.1.13. The effect of high levels of ADP is to _____.

Author: OpenStax College

The effect of high levels of ADP is to _____.

Please choose only one answer:

- increase the activity of the enzyme
- decrease the activity of the enzyme
- have no effect on the activity of the enzyme
- slow down the pathway

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

Question: [The effect of high levels of ADP is to . OpenStax College Biology](#)

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4.1.14. The control of which enzyme exerts the most control on glycolysis?

Author: OpenStax College

The control of which enzyme exerts the most control on glycolysis?

Please choose only one answer:

- hexokinase
- phosphofructokinase
- glucose-6-phosphatase
- aldolase

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

Question: [The control of which enzyme exerts the OpenStax College Biology 0](#)

Flashcards:

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