

Natural Sciences

Biology 06

Metabolism

MCQ

Author: OpenStax College

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4. Chapter: Biology 06 Metabolism MCQ

1. Biology 06 Metabolism MCQ Questions

4.1.1. Energy is stored long-term in the bonds of _____ and used short-ter...

Author: OpenStax College

Energy is stored long-term in the bonds of _____ and used short-term to perform work from a(n) _____ molecule.

Please choose only one answer:

- ATP : glucose
- an anabolic molecule : catabolic molecule
- glucose : ATP
- a catabolic molecule : anabolic molecule

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

Question: [Energy is stored long-term in the bonds OpenStax College Biology](#)

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4.1.2. DNA replication involves unwinding two strands of parent DNA, copyi...

Author: OpenStax College

DNA replication involves unwinding two strands of parent DNA, copying each strand to synthesize complementary strands, and releasing the parent and daughter DNA. Which of the following accurately describes this process?

Please choose only one answer:

- This is an anabolic process
- This is a catabolic process
- This is both anabolic and catabolic
- This is a metabolic process but is neither anabolic nor catabolic

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

Question: [DNA replication involves unwinding two OpenStax College Biology 0](#)

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4.1.3. Consider a pendulum swinging. Which type(s) of energy is/are associ...

Author: OpenStax College

Consider a pendulum swinging. Which type(s) of energy is/are associated with the pendulum in the following instances: i. the moment at which it completes one cycle, just before it begins to fall back towards the other end, ii. the moment that it is in the middle between the two ends, iii. just before it reaches the end of one cycle (just before instant i.).

Please choose only one answer:

- i. potential and kinetic, ii. potential and kinetic, iii. kinetic
- i. potential, ii. potential and kinetic, iii. potential and kinetic
- i. potential, ii. kinetic, iii. potential and kinetic
- i. potential and kinetic, ii. kinetic iii. kinetic

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Question: [Consider a pendulum swinging. Which type OpenStax College Biology](#)

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4.1.4. Which of the following comparisons or contrasts between endergonic ...

Author: OpenStax College

Which of the following comparisons or contrasts between endergonic and exergonic reactions is false?

Please choose only one answer:

- Endergonic reactions have a positive G and exergonic reactions have a negative G
- Endergonic reactions consume energy and exergonic reactions release energy
- Both endergonic and exergonic reactions require a small amount of energy to overcome an activation barrier
- Endergonic reactions take place slowly and exergonic reactions take place quickly

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

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4.1.5. Which of the following is the best way to judge the relative activa...

Author: OpenStax College

Which of the following is the best way to judge the relative activation energies between two given chemical reactions?

Please choose only one answer:

- Compare the G values between the two reactions
- Compare their reaction rates
- Compare their ideal environmental conditions
- Compare the spontaneity between the two reactions

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4.1.6. Which of the following is not an example of an energy transformation?

Author: OpenStax College

Which of the following is not an example of an energy transformation?

Please choose only one answer:

- Turning on a light switch
- Solar panels at work
- Formation of static electricity
- None of the above

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

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

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4.1.7. Label each of the following systems as high or low entropy: i. the ...

Author: OpenStax College

Label each of the following systems as high or low entropy: i. the instant that a perfume bottle is sprayed compared with 30 seconds later, ii. an old 1950s car compared with a brand new car, and iii. a living cell compared with a dead cell.

Please choose only one answer:

- i. low, ii. high, iii. low
- i. low, ii. high, iii. high
- i. high, ii. low, iii. high
- i. high, ii. low, iii. Low

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

Question: [Label each of the following systems as OpenStax College Biology 0](#)

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4.1.8. The energy released by the hydrolysis of ATP is

Author: OpenStax College

The energy released by the hydrolysis of ATP is

Please choose only one answer:

- primarily stored between the alpha and beta phosphates
- equal to -57 kcal/mol
- harnessed as heat energy by the cell to perform work
- providing energy to coupled reactions

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

Question: [The energy released by the hydrolysis of OpenStax College Biology](#)

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4.1.9. Which of the following molecules is likely to have the most potenti...

Author: OpenStax College

Which of the following molecules is likely to have the most potential energy?

Please choose only one answer:

- sucrose
- ATP
- glucose
- ADP

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

Question: [Which of the following molecules is likely OpenStax College Biology](#)

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4.1.10. Which of the following is not true about enzymes:

Author: OpenStax College

Which of the following is not true about enzymes:

Please choose only one answer:

- They increase G of reactions
- They are usually made of amino acids
- They lower the activation energy of chemical reactions
- Each one is specific to the particular substrate(s) to which it binds

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

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

Flashcards:

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4.1.11. An allosteric inhibitor does which of the following?

Author: OpenStax College

An allosteric inhibitor does which of the following?

Please choose only one answer:

- Binds to an enzyme away from the active site and changes the conformation of the active site, increasing its affinity for substrate binding
- Binds to the active site and blocks it from binding substrate
- Binds to an enzyme away from the active site and changes the conformation of the active site, decreasing its affinity for the substrate
- Binds directly to the active site and mimics the substrate

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

Question: [An allosteric inhibitor does which of the OpenStax College Biology](#)

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4.1.12. Which of the following analogies best describe the induced-fit mode...

Author: OpenStax College

Which of the following analogies best describe the induced-fit model of enzymesubstrate binding?

Please choose only one answer:

- A hug between two people
- A key fitting into a lock
- A square peg fitting through the square hole and a round peg fitting through the round hole of a children's toy
- The fitting together of two jigsaw puzzle pieces.

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

Question: [Which of the following analogies best OpenStax College Biology 06](#)

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