

A&P 24

Metabolism & Nutrition

MCQ

Author: OpenStax College

Published 2014

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4. Chapter: A&P 24 Metabolism & Nutrition MCQ

1. A&P 24 Metabolism & Nutrition MCQ Questions

4.1.1. A monosaccharide is formed from a polysaccharide in what kind of re...

Author: OpenStax College

A monosaccharide is formed from a polysaccharide in what kind of reaction?

Please choose only one answer:

- oxidation-reduction reaction
- anabolic reaction
- catabolic reaction
- biosynthetic reaction

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

Question: [A monosaccharide is formed from a OpenStax College Anatomy Physiology](#)

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4.1.2. If anabolic reactions exceed catabolic reactions, the result will b...

Author: OpenStax College

If anabolic reactions exceed catabolic reactions, the result will be _____.

Please choose only one answer:

- weight loss
- weight gain
- metabolic rate change
- development of disease

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

Question: [If anabolic reactions exceed catabolic OpenStax College Anatomy Quest](#)

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4.1.3. When NAD becomes NADH, the coenzyme has been _____.

Author: OpenStax College

When NAD becomes NADH, the coenzyme has been _____.

Please choose only one answer:

- reduced
- oxidized
- metabolized
- hydrolyzed

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

Question: [When NAD becomes NADH the coenzyme has OpenStax College Anatomy Quest](#)

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4.1.4. Anabolic reactions use energy by _____.

Author: OpenStax College

Anabolic reactions use energy by _____.

Please choose only one answer:

- turning ADP into ATP
- removing a phosphate group from ATP
- producing heat
- breaking down molecules into smaller parts

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

Question: [Anabolic reactions use energy by . OpenStax College Anatomy](#)

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4.1.5. Glycolysis results in the production of two _____ molecules from...

Author: OpenStax College

Glycolysis results in the production of two _____ molecules from a single molecule of glucose.

In the absence of _____, the end product of glycolysis is _____.

Please choose only one answer:

- acetyl CoA, pyruvate, lactate
- ATP, carbon, pyruvate
- pyruvate, oxygen, lactate
- pyruvate, carbon, acetyl CoA

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

Question: [Glycolysis results in the production of OpenStax College Anatomy](#)

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4.1.6. The Krebs cycle converts _____ through a cycle of reactions. In ...

Author: OpenStax College

The Krebs cycle converts _____ through a cycle of reactions. In the process, ATP, _____, and _____ are produced.

Please choose only one answer:

- acetyl CoA; FAD, NAD
- acetyl CoA; FADH₂; NADH
- pyruvate; NAD; FADH₂
- pyruvate; oxygen; oxaloacetate

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [The Krebs cycle converts through a cycle OpenStax College Anatomy](#)

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4.1.7. Which pathway produces the most ATP molecules?

Author: OpenStax College

Which pathway produces the most ATP molecules?

Please choose only one answer:

- lactic acid fermentation
- the Krebs cycle
- the electron transport chain
- glycolysis

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

Question: [Which pathway produces the most ATP OpenStax College Anatomy Quest](#)

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4.1.8. Aerobic cellular respiration results in the production of these two...

Author: OpenStax College

Aerobic cellular respiration results in the production of these two products.

Please choose only one answer:

- NADH and FADH₂
- ATP and pyruvate
- ATP and glucose
- ATP and H₂O

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

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4.1.9. When NAD⁺ becomes NADH, the coenzyme has been _____.

Author: OpenStax College

When NAD⁺ becomes NADH, the coenzyme has been _____.

Please choose only one answer:

- reduced
- oxidized
- metabolized
- hydrolyzed

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

Question: [When NAD becomes NADH the coenzyme has OpenStax College Anatomy Quest](#)

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4.1.10. Lipids in the diet can be _____.

Author: OpenStax College

Lipids in the diet can be _____.

Please choose only one answer:

- broken down into energy for the body
- stored as triglycerides for later use
- converted into acetyl CoA
- all of the above

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

Question: [Lipids in the diet can be . OpenStax College Anatomy Physiology 2](#)

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4.1.11. The gallbladder provides _____ that aid(s) in transport of lipid...

Author: OpenStax College

The gallbladder provides _____ that aid(s) in transport of lipids across the intestinal membrane.

Please choose only one answer:

- lipases
- cholesterol
- proteins
- bile salts

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

Question: [The gallbladder provides that aid s in OpenStax College Anatomy Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/the-gallbladder-provides-that-aid-s-in-openstax-college-anatomy-quest?pdf=1505>

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4.1.12. Triglycerides are transported by chylomicrons because _____.

Author: OpenStax College

Triglycerides are transported by chylomicrons because _____.

Please choose only one answer:

- they cannot move easily in the blood stream because they are fat based, while the blood is water based
- they are too small to move by themselves
- the chylomicrons contain enzymes they need for anabolism
- they cannot fit across the intestinal membrane

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

Question: [Triglycerides are transported by chylomicrons OpenStax College Anatomy](#)

Flashcards:

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4.1.13. Which molecule produces the most ATP?

Author: OpenStax College

Which molecule produces the most ATP?

Please choose only one answer:

- carbohydrates
- FADH₂
- triglycerides
- NADH

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

Question: [Which molecule produces the most ATP OpenStax College Anatomy Quest](#)

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4.1.14. Which molecules can enter the Krebs cycle?

Author: OpenStax College

Which molecules can enter the Krebs cycle?

Please choose only one answer:

- chylomicrons
- acetyl CoA
- monoglycerides
- ketone bodies

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

Question: [Which molecules can enter the Krebs cycle OpenStax College Anatomy](#)

Flashcards:

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4.1.15. Acetyl CoA can be converted to all of the following except _____.

Author: OpenStax College

Acetyl CoA can be converted to all of the following except _____.

Please choose only one answer:

- ketone bodies
- fatty acids
- polysaccharides
- triglycerides

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

Question: [Acetyl CoA can be converted to all of the OpenStax College Anatomy](#)

Flashcards:

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4.1.16. Digestion of proteins begins in the _____ where _____ and _____...

Author: OpenStax College

Digestion of proteins begins in the _____ where _____ and _____ mix with food to break down protein into _____.

Please choose only one answer:

- stomach; amylase; HCl; amino acids
- mouth; pepsin; HCl; fatty acids
- stomach; lipase; HCl; amino acids
- stomach; pepsin; HCl; amino acids

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

Question: [Digestion of proteins begins in the where OpenStax College Anatomy](#)

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4.1.17. Amino acids are needed to _____.

Author: OpenStax College

Amino acids are needed to _____.

Please choose only one answer:

- build new proteins
- serve as fat stores
- supply energy for the cell
- create red blood cells

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

Question: [Amino acids are needed to . OpenStax College Anatomy Physiology 2](#)

Flashcards:

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4.1.18. If an amino acid is not used to create new proteins, it can be _____.

Author: OpenStax College

If an amino acid is not used to create new proteins, it can be _____.

Please choose only one answer:

- converted to acetyl CoA
- converted to glucose or ketones
- converted to nitrogen
- stored to be used later

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

Question: [If an amino acid is not used to create OpenStax College Anatomy Quest](#)

Flashcards:

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4.1.19. During the absorptive state, glucose levels are _____, insulin I...

Author: OpenStax College

During the absorptive state, glucose levels are _____, insulin levels are _____, and glucagon levels _____.

Please choose only one answer:

- high; low; stay the same
- low; low; stay the same
- high; high; are high
- high; high; are low

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

Question: [During the absorptive state glucose levels OpenStax College Anatomy](#)

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4.1.20. Starvation sets in after 3 to 4 days without food. Which hormones c...

Author: OpenStax College

Starvation sets in after 3 to 4 days without food. Which hormones change in response to low glucose levels?

Please choose only one answer:

- glucagon and insulin
- ketones and glucagon
- insulin, glucose, and glucagon
- insulin and ketones

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

Question: [Starvation sets in after 3 to 4 days OpenStax College Anatomy Quest](#)

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4.1.21. The postabsorptive state relies on stores of _____ in the _____.

Author: OpenStax College

The postabsorptive state relies on stores of _____ in the _____.

Please choose only one answer:

- insulin; pancreas
- glucagon; pancreas
- glycogen; liver
- glucose; liver

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

Question: [The postabsorptive state relies on stores OpenStax College Anatomy](#)

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4.1.22. The body's temperature is controlled by the _____.

This temperat...

Author: OpenStax College

The body's temperature is controlled by the _____.

This temperature is always kept between _____.

Please choose only one answer:

- pituitary; 36.5-37.5 °C
- hypothalamus; 97.7-99.5 °F
- hypothalamus; 36.5-37.5 °F
- pituitary; 97.7-99.5 °F

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4.1.23. Fever increases the body temperature and can induce chills to help ...

Author: OpenStax College

Fever increases the body temperature and can induce chills to help cool the temperature back down.

What other mechanisms are in place to regulate the body temperature?

Please choose only one answer:

- shivering
- sweating
- erection of the hairs on the arms and legs
- all of the above

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

Question: [Fever increases the body temperature and OpenStax College Anatomy](#)

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4.1.24. The heat you feel on your chair when you stand up was transferred f...

Author: OpenStax College

The heat you feel on your chair when you stand up was transferred from your skin via _____.

Please choose only one answer:

- conduction
- convection
- radiation
- evaporation

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

Question: [The heat you feel on your chair when you OpenStax College Anatomy](#)

Flashcards:

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4.1.25. A crowded room warms up through the mechanism of _____.

Author: OpenStax College

A crowded room warms up through the mechanism of _____.

Please choose only one answer:

- conduction
- convection
- radiation
- evaporation

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

Question: [A crowded room warms up through the OpenStax College Anatomy Quest](#)

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4.1.26. A deficiency in vitamin A can result in _____.

Author: OpenStax College

A deficiency in vitamin A can result in _____.

Please choose only one answer:

- improper bone development
- scurvy
- improper eye development or sight
- all of the above

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

Question: [A deficiency in vitamin A can result in OpenStax College Anatomy](#)

Flashcards:

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4.1.27. Rickets results in improper bone development in children that arise...

Author: OpenStax College

Rickets results in improper bone development in children that arises from the malabsorption of calcium and a deficiency in _____.

Please choose only one answer:

- vitamin D
- vitamin C
- vitamin B12
- niacin

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Rickets results in improper bone development OpenStax College Anatomy](#)

Flashcards:

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4.1.28. Consuming which type of food will help the most with weight loss?

Author: OpenStax College

Consuming which type of food will help the most with weight loss?

Please choose only one answer:

- fats
- vegetables
- lean meats
- fruits

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

Question: [Consuming which type of food will help OpenStax College Anatomy Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/consuming-which-type-of-food-will-help-openstax-college-anatomy-quest?pdf=1505>

Interactive Question:

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4.1.29. Which of the following is stored in the body?

Author: OpenStax College

Which of the following is stored in the body?

Please choose only one answer:

- thiamine
- phosphorous
- folic acid
- vitamin C

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

Question: [Which of the following is stored in the OpenStax College Anatomy](#)

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