

A&P 03 Cellular Level of Organization MCQ

Author: OpenStax College

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4. Chapter: A&P 03 Cellular Level of Organization MCQ

1. A&P 03 Cellular Level of Organization MCQ Questions

4.1.1. Because they are embedded within the membrane, ion channels are exa...

Author: OpenStax College

Because they are embedded within the membrane, ion channels are examples of _____.

Please choose only one answer:

- receptor proteins
- integral proteins
- peripheral proteins
- glycoproteins

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

Question: [Because they are embedded within the OpenStax College Anatomy Quest](#)

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4.1.2. The diffusion of substances within a solution tends to move those s...

Author: OpenStax College

The diffusion of substances within a solution tends to move those substances _____ their _____ gradient.

Please choose only one answer:

- up; electrical
- up; electrochemical
- down; pressure
- down; concentration

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

Question: [The diffusion of substances within a OpenStax College Anatomy Quest](#)

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4.1.3. Ion pumps and phagocytosis are both examples of _____.

Author: OpenStax College

Ion pumps and phagocytosis are both examples of _____.

Please choose only one answer:

- endocytosis
- passive transport
- active transport
- facilitated diffusion

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

Question: [ion pumps and phagocytosis are both examples OpenStax College Anatomy](#)

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4.1.4. Choose the answer that best completes the following analogy: Diffus...

Author: OpenStax College

Choose the answer that best completes the following analogy: Diffusion is to _____ as endocytosis is to _____.

Please choose only one answer:

- filtration; phagocytosis
- osmosis; pinocytosis
- solutes; fluid
- gradient; chemical energy

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

Question: [Choose the answer that best completes the OpenStax College Anatomy](#)

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4.1.5. Choose the term that best completes the following analogy: Cytoplas...

Author: OpenStax College

Choose the term that best completes the following analogy: Cytoplasm is to cytosol as a swimming pool containing chlorine and flotation toys is to _____.

Please choose only one answer:

- the walls of the pool
- the chlorine
- the flotation toys
- the water

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

Question: [Choose the term that best completes the OpenStax College Anatomy](#)

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4.1.6. The rough ER has its name due to what associated structures?

Author: OpenStax College

The rough ER has its name due to what associated structures?

Please choose only one answer:

- Golgi apparatus
- ribosomes
- lysosomes
- proteins

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

Question: [The rough ER has its name due to what OpenStax College Anatomy Quest](#)

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4.1.7. Which of the following is a function of the rough ER?

Author: OpenStax College

Which of the following is a function of the rough ER?

Please choose only one answer:

- production of proteins
- detoxification of certain substances
- synthesis of steroid hormones
- regulation of intracellular calcium concentration

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

Question: [Which of the following is a function of OpenStax College Anatomy](#)

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4.1.8. Which of the following is a feature common to all three components ...

Author: OpenStax College

Which of the following is a feature common to all three components of the cytoskeleton?

Please choose only one answer:

- They all serve to scaffold the organelles within the cell.
- They are all characterized by roughly the same diameter.
- They are all polymers of protein subunits.
- They all help the cell resist compression and tension.

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

Question: [Which of the following is a feature common OpenStax College Anatomy](#)

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4.1.9. Which of the following organelles produces large quantities of ATP ...

Author: OpenStax College

Which of the following organelles produces large quantities of ATP when both glucose and oxygen are available to the cell?

Please choose only one answer:

- mitochondria
- peroxisomes
- lysosomes
- ER

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

Question: [Which of the following organelles produces OpenStax College Anatomy](#)

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4.1.10. The nucleus and mitochondria share which of the following features?

Author: OpenStax College

The nucleus and mitochondria share which of the following features?

Please choose only one answer:

- protein-lined membrane pores
- a double cell membrane
- the synthesis of ribosomes
- the production of cellular energy

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

Question: [The nucleus and mitochondria share which OpenStax College Anatomy](#)

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4.1.11. Which of the following structures could be found within the nucleolus?

Author: OpenStax College

Which of the following structures could be found within the nucleolus?

Please choose only one answer:

- chromatin
- histones
- ribosomes
- nucleosomes

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

Question: [Which of the following structures could OpenStax College Anatomy](#)

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4.1.12. Which of the following sequences on a DNA molecule would be complem...

Author: OpenStax College

Which of the following sequences on a DNA molecule would be complementary to GCTTATAT?

Please choose only one answer:

- TAGGCGCG
- ATCCGCGC
- CGAATATA
- TGCCTCTC

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

Question: [Which of the following sequences on a DNA OpenStax College Anatomy](#)

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4.1.13. Place the following structures in order from least to most complex ...

Author: OpenStax College

Place the following structures in order from least to most complex organization: chromatin, nucleosome, DNA, chromosome

Please choose only one answer:

- DNA, nucleosome, chromatin, chromosome
- nucleosome, DNA, chromosome, chromatin
- DNA, chromatin, nucleosome, chromosome
- nucleosome, chromatin, DNA, chromosome

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

Question: [Place the following structures in order OpenStax College Anatomy](#)

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4.1.14. Which of the following is part of the elongation step of DNA synthe...

Author: OpenStax College

Which of the following is part of the elongation step of DNA synthesis?

Please choose only one answer:

- pulling apart the two DNA strands
- attaching complementary nucleotides to the template strand
- untwisting the DNA helix
- none of the above

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Question: [Which of the following is part of the OpenStax College Anatomy Quest](#)

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4.1.15. Which of the following is not a difference between DNA and RNA?

Author: OpenStax College

Which of the following is not a difference between DNA and RNA?

Please choose only one answer:

- DNA contains thymine whereas RNA contains uracil
- DNA contains deoxyribose and RNA contains ribose
- DNA contains alternating sugar-phosphate molecules whereas RNA does not contain sugars
- RNA is single stranded and DNA is double stranded

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

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

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4.1.16. Transcription and translation take place in the _____ and _____...

Author: OpenStax College

Transcription and translation take place in the _____ and _____, respectively.

Please choose only one answer:

- nucleus; cytoplasm
- nucleolus; nucleus
- nucleolus; cytoplasm
- cytoplasm; nucleus

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

Question: [Transcription and translation take place OpenStax College Anatomy](#)

Flashcards:

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4.1.17. How many "letters" of an RNA molecule, in sequence, does it take to...

Author: OpenStax College

How many "letters" of an RNA molecule, in sequence, does it take to provide the code for a single amino acid?

Please choose only one answer:

- 1
- 2
- 3
- 4

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

Question: [How many letters of an RNA molecule in OpenStax College Anatomy Quest](#)

Flashcards:

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4.1.18. Which of the following is not made out of RNA?

Author: OpenStax College

Which of the following is not made out of RNA?

Please choose only one answer:

- the carriers that shuffle amino acids to a growing polypeptide strand
- the ribosome
- the messenger molecule that provides the code for protein synthesis
- the intron

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

Question: [Which of the following is not made out of OpenStax College Anatomy](#)

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4.1.19. Which of the following phases is characterized by preparation for D...

Author: OpenStax College

Which of the following phases is characterized by preparation for DNA synthesis?

Please choose only one answer:

- G0
- G1
- G2
- S

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

Question: [Which of the following phases is characterized OpenStax College Anatomy](#)

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4.1.20. A mutation in the gene for a cyclin protein might result in which o...

Author: OpenStax College

A mutation in the gene for a cyclin protein might result in which of the following?

Please choose only one answer:

- a cell with additional genetic material than normal
- cancer
- a cell with less genetic material than normal
- any of the above

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

Question: [A mutation in the gene for a cyclin protein OpenStax College Anatomy](#)

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4.1.21. What is a primary function of tumor suppressor genes?

Author: OpenStax College

What is a primary function of tumor suppressor genes?

Please choose only one answer:

- stop all cells from dividing
- stop certain cells from dividing
- help oncogenes produce oncoproteins
- allow the cell to skip certain phases of the cell cycle

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

Question: [What is a primary function of tumor OpenStax College Anatomy Quest](#)

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4.1.22. Arrange the following terms in order of increasing specialization: ...

Author: OpenStax College

Arrange the following terms in order of increasing specialization: oligopotency, pleuripotency, unipotency, multipotency.

Please choose only one answer:

- multipotency, pleuripotency, oligopotency, unipotency
- pleuripotency, oligopotency, multipotency unipotency
- oligopotency, pleuripotency, unipotency, multipotency
- pleuripotency, multipotency, oligopotency, unipotency

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Question: [Arrange the following terms in order of OpenStax College Anatomy](#)

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4.1.23. Which type of stem cell gives rise to red and white blood cells?

Author: OpenStax College

Which type of stem cell gives rise to red and white blood cells?

Please choose only one answer:

- endothelial
- epithelial
- hematopoietic
- mesenchymal

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

Question: [Which type of stem cell gives rise to red OpenStax College Anatomy](#)

Flashcards:

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4.1.24. What multipotent stem cells from children sometimes banked by parents?

Author: OpenStax College

What multipotent stem cells from children sometimes banked by parents?

Please choose only one answer:

- fetal stem cells
- embryonic stem cells
- cells from the umbilical cord and from baby teeth
- hematopoietic stem cells from red and white blood cells

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

Question: [What multipotent stem cells from children OpenStax College Anatomy](#)

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