Natural Molecular & Cellular Biology

Author: Ann Schlosser

Professor @Moberly Area Community College

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Table of Contents

Quiz Permalink: http://www.quizover.com/question/cellular-biology

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- 1. Molecular & Cellular Biology
- Unit 05: Central Dogma of Molecular Biology
- Unit 01: Biology and Life
- Unit 04: Photosynthesis
- Unit 02: Molecules, Macromolecules, and Polymers
- Unit 06: Cellular Energy
- Unit 07: Molecular Genetics
- Unit 08: Cell Division
- Unit 03: Cells

| Jnit 05 | : Central Do | ogma of Mo | lecular Bio | ology Ques | stions | | |
|---------|--------------|------------|-------------|------------|--------|--|--|
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4.1.1. A protein binds a DNA sequence several hundred base pairs upstream ...

Author: Ann Schlosser

A protein binds a DNA sequence several hundred base pairs upstream of a promoter and increases the rate of transcription of the gene, which the promoter controls. This protein is called which of the following?

Please choose only one answer:

- Repressor
- Lactose
- Polymerase
- Enhancer

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Question: A protein binds a DNA sequence several Ann Schlosser @Moberly Area

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4.1.2. Which of the following are the fundamental chronological steps of t...

Author: Ann Schlosser

Which of the following are the fundamental chronological steps of the Central Dogma of Molecular Biology?

Please choose only one answer:

- DNA is translated to mRNA, which is transcribed to protein.
- DNA is transcribed to mRNA, which is translated to protein.
- DNA is polymerized to protein, which is translated to mRNA.
- DNA is transcribed to mRNA, which is functionalized to protein.

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4.1.3. Which of the following is CORRECTLY matched?

Author: Ann Schlosser

Which of the following is CORRECTLY matched?

Please choose only one answer:

- Exon and mRNA
- tRNA and nucleus
- · Okazaki fragments and nucleus
- Assembly into multimeric protein and Golgi

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4.1.4. Which statement about the role of these RNA polymerases is inaccurate?

Author: Ann Schlosser

Which statement about the role of these RNA polymerases is inaccurate?

Please choose only one answer:

- mRNA is a RNA copy of a segment of DNA.
- tRNA transfers information from the DNA to the RNA.
- rRNA serves as a decoder during translation.
- tRNA and rRNA interact closely during translation.

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| . Cha | apter: Unit 01 | : Biology and | Life | | |
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| Unit | 01: Biology ar | nd Life Questic | ons | | |
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4.1.1. How is energy transferred in metabolism?

Author: Ann Schlosser

How is energy transferred in metabolism?

Please choose only one answer:

- By the process where a phosphate group is added to ADP
- By the process where a phosphate group is added to ATP
- By phosphate groups that are moved around
- By enzymes that are moved around

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

Question: How is energy transferred in metabolism Ann Schlosser @Moberly

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4.1.2. Which of the following is NOT an organ involved in homeostasis?

Author: Ann Schlosser

Which of the following is NOT an organ involved in homeostasis?

Please choose only one answer:

- Liver
- Kidney
- Endocrine system
- Cerebellum

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Question: Which of the following is NOT an organ Ann Schlosser @Moberly Area

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4.1.3. Which of the following scientist(s) discovered the structure of the...

Author: Ann Schlosser

Which of the following scientist(s) discovered the structure of the DNA molecule?

Please choose only one answer:

- Gregor Mendel
- Francis Crick and James Watson
- Louis Pasteur
- Antonie van Leeuwenhoek

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Question: Which of the following scientist's discovered Ann Schlosser @Moberly

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4.1.4. Which of the following statement about evolution and adaptation is ...

Author: Ann Schlosser

Which of the following statement about evolution and adaptation is false?

Please choose only one answer:

- The most superior individual in the species will pass the most genes to the next generation.
- The most superior finch in a habitat is the most efficient at finding sexual mates.
- The ability to survive various environments confers an adaptive advantage.
- Evolution is all natural, meaning that it has no rules.

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| 4. Chapter: Unit 04: Photosynthesis | | | | | | |
|---|--|--|--|--|--|--|
| 1. Unit 04: Photosynthesis Questions | | | | | | |
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4.1.1. Where is ATP produced in the chloroplast?

Author: Ann Schlosser

Where is ATP produced in the chloroplast?

Please choose only one answer:

- Calvin Cycle
- · ATP synthase on the thylakoid membrane
- Electron transport chain of the light reactions in the thylakoid membrane
- All of the above

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Question: Where is ATP produced in the chloroplast Ann Schlosser @Moberly Molecular

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4.1.2. Which of the following are produced during the light reactions of p...

Author: Ann Schlosser

Which of the following are produced during the light reactions of photosynthesis?

Please choose only one answer:

- ATP, NADPH, and O2
- Glucose, ATP, and NADPH
- ATP, NADPH, and CO2
- ADP, NADP+, and O2

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Question: Which of the following are produced during Ann Schlosser @Moberly

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| 4. Chapter: Unit 02: Molecules, Macromolecules, and Polymers |
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| 1. Unit 02: Molecules, Macromolecules, and Polymers Questions |
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4.1.1. If the general formula for monosaccharide is (CH2O)n, then the valu... Author: Ann Schlosser If the general formula for monosaccharide is (CH2O)n, then the value of n for galactose is _ and Please choose only one answer: 4, 6 6, 4 6, 6 5, 6 Check the answer of this question online at QuizOver.com: Question: If the general formula for monosaccharide Ann Schlosser @Moberly Flashcards: http://www.quizover.com/flashcards/question-if-the-general-formula-for-monosaccharide-ann-schlosser-mober?pdf=1505 Interactive Question: http://www.quizover.com/question/question-if-the-general-formula-for-monosaccharide-ann-schlosser-mober?pdf=1505

4.1.2. The conversion of ADP to ATP does NOT involve which of the following?

Author: Ann Schlosser

The conversion of ADP to ATP does NOT involve which of the following?

Please choose only one answer:

- Expenditure of energy to form a high energy bond
- Attachment of a phosphate (P) atom
- Loss of a water molecule
- AMP

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Question: The conversion of ADP to ATP does NOT Ann Schlosser @Moberly Area

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| 4.1.3. The monosaccharide that forms maltose is | , that forms | |
|---|-------------------------------------|----------------------|
| Author: Ann Schlosser | | |
| The monosaccharide that forms maltose is | , that forms lactose is | , and that |
| forms sucrose is | | |
| | | |
| Please choose only one answer: | | |
| Glucose + glucose, glucose + fructose, galactose + g | | |
| Glucose + glucose, galactose + glucose, glucose + fi | | |
| Glucose + fructose, galactose + glucose, glucose + g | | |
| • Galactose + glucose, glucose + fructose, glucose + ç | lucose | |
| Check the answer of this question online at QuizOver.co | m: | |
| Question: The monosaccharide that forms maltose is Ann Sc | nlosser @Moberly Molecular | |
| Flashcards: http://www.quizover.com/flashcards/the-monosaccharide-that- | forms-maltose-is-ann-schlosser-mohe | rly-malecul2ndf-1505 |
| Interactive Question: http://www.quizover.com/question/the-monosaccharide-that-fo | | |
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4.1.4. What is the three-dimensional conformation of a polypeptide chain c...

Author: Ann Schlosser

What is the three-dimensional conformation of a polypeptide chain called?

Please choose only one answer:

- Primary structure
- Secondary structure
- Tertiary structure
- Quaternary structure

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Question: What is the three-dimensional conformation Ann Schlosser @Moberly

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4.1.5. Which of the following is a TRUE statement regarding enzymes?

Author: Ann Schlosser

Which of the following is a TRUE statement regarding enzymes?

Please choose only one answer:

- Enzymes do not change during a catalytic reaction.
- Enzymes always require coenzymes for their function.
- Enzymes are hydrolyzed during DNA replication.
- Enzymes are not organic, that is, they do not contain carbon atoms.

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Question: Which of the following is a TRUE statement Ann Schlosser @Moberly

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| Chapter: Unit 06: Cellular Energy | |
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| Unit 06: Cellular Energy Questions | |
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4.1.1. What is the first product of glycolysis?

Author: Ann Schlosser

What is the first product of glycolysis?

Please choose only one answer:

- Fructose 6 phosphate
- Glucose 6 phosphate
- Pyruvate
- Fructose

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4.1.2. Which of the following produces a net gain in the high energy molec...

Author: Ann Schlosser

Which of the following produces a net gain in the high energy molecules ATP, NADH, and FADH2?

Please choose only one answer:

- Glycolysis
- Krebs cycle
- · Lactic acid fermentation
- Alcoholic fermentation

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Question: Which of the following produces a net gain Ann Schlosser @Moberly

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| . Chapter: Unit 07: Molecular Genetics | |
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| . Unit 07: Molecular Genetics Questions | |
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4.1.1. In Polymerase Chain Reaction, what is the function of primers?

Author: Ann Schlosser

In Polymerase Chain Reaction, what is the function of primers?

Please choose only one answer:

- Primers initiate the synthesis of DNA polymerase.
- Primes allow the double-stranded DNA to separate into single-stranded DNA.
- Primers activate the DNA polymerase to polymerize new DNA.
- Primers initiate the synthesis of DNA.

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Question: In Polymerase Chain Reaction what is the Ann Schlosser @Moberly Molecular

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4.1.2. What is the primary reaction catalyzed by DNA polymerases?

Author: Ann Schlosser

What is the primary reaction catalyzed by DNA polymerases?

Please choose only one answer:

- Addition of a deoxyribonucleoside 5'-triphosphate to a 3'-hydroxyl group
- Elimination of a phosphate group from ATP
- Addition of a 3'-hydroxyl to a deoxyribonucleoside 5'-triphosphate group
- Elimination of an adenosine nucleotide from a deoxyribonucleoside 5'-triphosphate group

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Question: What is the primary reaction catalyzed by Ann Schlosser @Moberly

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4.1.3. Which of the following did Mendel's experiments demonstrate?

Author: Ann Schlosser

Which of the following did Mendel's experiments demonstrate?

Please choose only one answer:

- Neither parent contributes any factors of each trait(s) shown in the offspring.
- The two members of each pair of factors segregate from each other during gamete formation.
- Inheritance is best described by the blending theory.
- Males contribute more than females to the traits in their offspring.

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Question: Which of the following did Mendel's Ann Schlosser @Moberly Area Molecular

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4.1.4. Which of the following statements about DNA replication is true?

Author: Ann Schlosser

Which of the following statements about DNA replication is true?

Please choose only one answer:

- Okazaki fragments are newly synthesized DNA that occur on the 5' to 3' direction on the template DNA.
- DNA unwinds spontaneously before replication.
- DNA polymerase only reads in one direction.
- In eukaryotic cells, there is only one type of DNA polymerase.

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Question: Which of the following statements about Ann Schlosser @Moberly

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| 4. Chapter: Unit 08: Cell Division | |
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| 1. Unit 08: Cell Division Questions | |
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4.1.1. Mitotic spindles are NOT present during which phase?

Author: Ann Schlosser

Mitotic spindles are NOT present during which phase?

Please choose only one answer:

- Interphase
- Prophase
- Metaphase
- Anaphase

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4.1.2. Nucleoli are present during which phase?

Author: Ann Schlosser

Nucleoli are present during which phase?

Please choose only one answer:

- Interphase
- Prophase
- Metaphase
- Anaphase

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Question: Nucleoli are present during which phase Ann Schlosser @Moberly

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4.1.3. Which of the following is a definition of centrosome?

Author: Ann Schlosser

Which of the following is a definition of centrosome?

Please choose only one answer:

- An organelle that is involved in formation of the mitotic spindle
- The aggregation of all genetic information
- DNA, the genetic code
- An organelle that is responsible for replicating DNA

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Question: Which of the following is a definition of Ann Schlosser @Moberly

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| 4. Chapter: Unit 03: Cells | | |
|---|--|--|
| 1. Unit 03: Cells Questions | | |
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4.1.1. Which of the following is found in BOTH plant and animal cells?

Author: Ann Schlosser

Which of the following is found in BOTH plant and animal cells?

Please choose only one answer:

- Cell wall
- Nucleus
- Chloroplast
- Central vacuole

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

Question: Which of the following is found in BOTH Ann Schlosser @Moberly

Flashcards:

http://www.quizover.com/flashcards/question-which-of-the-following-is-found-in-both-ann-schlosser-moberly?pdf=1505

Interactive Question:

http://www.quizover.com/question/question-which-of-the-following-is-found-in-both-ann-schlosser-moberly?pdf=1505

4.1.2. Which of the following is NOT a property, or characteristic, of cel...

Author: Ann Schlosser

Which of the following is NOT a property, or characteristic, of cell membranes or a component found in cell membranes?

Please choose only one answer:

- Cells membranes are permeable to water and charged molecules.
- Cell membranes are fluid structures that can shift and move.
- Cell membranes not only found as an external outer covering of the cell
- All of the above

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

Question: Which of the following is NOT a property Ann Schlosser @Moberly Molecular

Flashcards:

http://www.quizover.com/flashcards/which-of-the-following-is-not-a-property-ann-schlosser-moberly-molecul?pdf=1505

Interactive Question:

http://www.quizover.com/question/which-of-the-following-is-not-a-property-ann-schlosser-moberly-molecul?pdf=1505

4.1.3. Which of the following organelles is CORRECTLY matched to their fun...

Author: Ann Schlosser

Which of the following organelles is CORRECTLY matched to their function?

Please choose only one answer:

- Golgi apparatus is the organelle where energy rich ATP is generated.
- Endoplasmic reticulum (ER) is involved in protein synthesis.
- Peroxisomes are vesicles inside the cells that contain digestive enzymes for degrading old organelles.
- Central Vacuole is the site for DNA and RNA synthesis

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

Question: Which of the following organelles is Ann Schlosser @Moberly Area

Flashcards:

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Interactive Question:

http://www.quizover.com/question/question-which-of-the-following-organelles-is-ann-schlosser-moberly-ar?pdf=1505

4.1.4. Which of the following is NOT a structure or characteristic associa...

Author: Ann Schlosser

Which of the following is NOT a structure or characteristic associated with eukaryotes?

Please choose only one answer:

- Golgi apparatus
- Nucleus
- Plasmids
- Chloroplast

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

Question: Which of the following is NOT a structure Ann Schlosser @Moberly

Flashcards:

http://www.quizover.com/flashcards/question-which-of-the-following-is-not-a-structure-ann-schlosser-mober?pdf=1505

Interactive Question:

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