

# Natural Sciences

# Biology Exam

# 2

## Biology #2

Author: Vanessa Soledad

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## 4. Chapter: Biology Exam 2

### 1. Biology Exam 2 Questions

#### 4.1.1. What would be the correct diagnosis for this unborn child, accordin...

Author: Vanessa Soledad

What would be the correct diagnosis for this unborn child, according to the information available?

Please choose only one answer:

- trisomy 21
- monosomy 21
- trisomy 18
- monosomy XX

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

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#### 4.1.2. in a plant cell, where can ATP synthase be found?

Author: Vanessa Soledad

in a plant cell, where can ATP synthase be found?

Please choose only one answer:

- in the thylakoid membrane
- in the plasma membrane
- in the inner mitochondrial membrane
- A and C
- A, B, and C

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

Question: [in a plant cell where can ATP synthase be Vanessa Soledad Exam 2](#)

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### 4.1.3. why is glycolysis described as having an energy investment phase an...

Author: Vanessa Soledad

why is glycolysis described as having an energy investment phase and a payoff phase?

Please choose only one answer:

- it uses glucose and generates pyruvate
- it shifts pyruvate from the cytoplasm to the mitochondrion
- it requires ATP to begin the reaction, but generates an overall net gain of ATP
- it phosphorylates and dephosphorylates several intermediate molecules

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#### 4.1.4. what process produces ethanol or lactic acid?

Author: Vanessa Soledad

what process produces ethanol or lactic acid?

Please choose only one answer:

- electron transport chain
- fermentation
- glycolysis
- krebs cycle

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

Question: [what process produces ethanol or lactic Vanessa Soledad Exam 2 Quest](#)

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#### 4.1.5. which of following statements best represents the relationships bet...

Author: Vanessa Soledad

which of following statements best represents the relationships between the light reactions and the Calvin cycle(synthesis reactions) ?

Please choose only one answer:

- the light reactions provide ATP and NADPH to the calvin cycle, and the cycle returns ADP, Pi, and NADP+ to the light reactions
- the light reactions provide ATP and NADPH to the carbon fixation step of the calvin cycle, and the cycle provides water and electrons to the light reactions.
- the light reactions supply the calvin cycle with CO<sub>2</sub> to produce sugars and the calvin cycle provides supplies the light reactions with sugars to produce atp
- the light reactions provides the calvin cycle with oxygen for electron flow, and the calcin cycle provides the light reactions for water to split
- no relationships between light reactions and the calvin cycle

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#### 4.1.6. is what stage of cell division are female oocytes arrested between ...

Author: Vanessa Soledad

is what stage of cell division are female oocytes arrested between birth and puberty?

Please choose only one answer:

- meiosis II
- meiosis I
- mitosis
- none of the above

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

Question: [is what stage of cell division are female Vanessa Soledad Exam 2](#)

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#### 4.1.7. how do the chemical methods of female birth control affect meiosis?

Author: Vanessa Soledad

how do the chemical methods of female birth control affect meiosis?

Please choose only one answer:

- it does all of the above
- the hormones in the birth control pills stop meiosis from ever starting
- it kills any eggs that might be released
- it prevents egg cells from resuming meiosis once they are in the arresting phase

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

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#### 4.1.8. which of the following is true of type I diabetes?

Author: Vanessa Soledad

which of the following is true of type I diabetes?

Please choose only one answer:

- it is more common form of diabetes
- target cells do not respond to insulin
- it is an autoimmune disease
- it usually occurs in middle-aged people

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

Question: [which of the following is true of type I Vanessa Soledad Exam 2 Quest](#)

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#### 4.1.9. which of these statements best explains why your body prefers to pe...

Author: Vanessa Soledad

which of these statements best explains why your body prefers to perform aerobic respiration as opposed to anaerobic respiration?

Please choose only one answer:

- anaerobic respiration does not allow for NADH to be recycled to NAD<sup>+</sup>
- aerobic respiration produces far more ATP than anaerobic respiration
- aerobic respiration requires less of an ATP investment than anaerobic respiration
- aerobic respiration is easier for cells to perform than anaerobic respiration

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

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#### 4.1.10. in the synthesis reactions, rubisco attaches a CO<sub>2</sub> to RuBP to produ...

Author: Vanessa Soledad

in the synthesis reactions, rubisco attaches a CO<sub>2</sub> to RuBP to produce a 6 carbon molecule, which immediately splits in two. After phosphorylation (the addition of ATP) and NADPH is used, to make G3P, what more needs to happen in the Calvin cycle for its continuation?

Please choose only one answer:

- regeneration of NADPH
- regeneration of RuBP
- regeneration of ATP from ADP and Pi
- inactivation of rubisco

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

Question: [in the synthesis reactions rubisco attaches Vanessa Soledad Exam](#)

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4.1.11. at the end of the electron transport chain, the terminal electron a...

Author: Vanessa Soledad

at the end of the electron transport chain, the terminal electron acceptor is \_\_\_\_\_, and ultimately yields 2 molecules of \_\_\_\_\_.

Please choose only one answer:

- ADP; ATP
- NAD<sup>+</sup>;NADH
- O<sub>2</sub>;H<sub>2</sub>O
- CO<sub>2</sub>;O<sub>2</sub>

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

Question: [at the end of the electron transport chain Vanessa Soledad Exam 2](#)

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#### 4.1.12. AN ANIMAL CELL CONTAINS A TOTAL DIPLOID CHROMOSOME NUMBER OF 20. HO...

Author: Vanessa Soledad

AN ANIMAL CELL CONTAINS A TOTAL DIPLOID CHROMOSOME NUMBER OF 20. HOW MANY HOMOLOGOUS PAIRS OF CHROMOSOMES WOULD BE FOUND IN THIS CELL?

Please choose only one answer:

- 40
- 20
- 0
- 10

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

Question: [AN ANIMAL CELL CONTAINS A TOTAL DIPLOID Vanessa Soledad Exam 2 Quest](#)

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4.1.13. prior to entering the krebs cycle, pyruvate loses a \_\_\_\_\_ and is ...

Author: Vanessa Soledad

prior to entering the krebs cycle, pyruvate loses a \_\_\_\_\_ and is converted to \_\_\_\_\_.

Please choose only one answer:

- hydrogen ion; NADH
- water; acetyl-Coa
- carbon as CO<sub>2</sub>; lactic acid
- carbon as CO<sub>2</sub>; acetyl-CoA

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

Question: [prior to entering the krebs cycle pyruvate Vanessa Soledad Exam 2](#)

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#### 4.1.14. which of the following is different between oogenesis and spermatog...

Author: Vanessa Soledad

which of the following is different between oogenesis and spermatogenesis?

Please choose only one answer:

- the number of parent cells
- the number of functional cells produced
- the number of rounds in their cell division
- the generation of genetic diversity

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4.1.15. these three steps result in the formation of:

Author: Vanessa Soledad

these three steps result in the formation of:

Please choose only one answer:

- acetyl CoA, NAD<sup>+</sup>, ATP, CO<sub>2</sub>
- acetyl coa, fadh<sub>2</sub>, and co<sub>2</sub>
- acetyl CoA, NADH, and CO<sub>2</sub>
- acetyl Coa, o<sub>2</sub>, atp

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

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#### 4.1.16. which of the following sequences best describes the flow of electro...

Author: Vanessa Soledad

which of the following sequences best describes the flow of electrons through aerobic cellular respiration?

Please choose only one answer:

- food--NADH/FADH<sub>2</sub>--Electric transport chain--O<sub>2</sub>
- food, glycolysis, krebs cycle, atp, etc, nad<sup>+</sup>
- food, nadh, fadh<sub>2</sub>, atp, o<sub>2</sub>
- food, krebs cycle, atp, nad<sup>+</sup>

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4.1.17. it is said that most cells can divide roughly 50 times. why is ther...

Author: Vanessa Soledad

it is said that most cells can divide roughly 50 times. why is there a limit to how many times cells can safely divide?

Please choose only one answer:

- cells automatically enter apoptosis to complete their life cycle
- cells that divide more than 50 times automatically become cancerous and threaten the life of an organism
- after 50 replications of DNA, centromeres become too short and deteriorate
- after 50 replications of DNA, telomeres become too short and deteriorate

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#### 4.1.18. where does the new mass of a plant come from as it grows?

Author: Vanessa Soledad

where does the new mass of a plant come from as it grows?

Please choose only one answer:

- sunlight
- capture of carbon dioxide
- capture of oxygen gas
- absorbed water
- chemicals in soil

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

Question: [where does the new mass of a plant come from Vanessa Soledad Exam](#)

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#### 4.1.19. where does the calvin cycle take place?

Author: Vanessa Soledad

where does the calvin cycle take place?

Please choose only one answer:

- in the chlorophyll molecules
- cytoplasm outside of the chloroplast
- thylakoid membrane
- outer membrane of the chloroplast
- stroma of the chloroplast

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Question: [where does the calvin cycle take place Vanessa Soledad Exam 2 Quest](#)

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#### 4.1.20. how does the weight loss product Alii function?

Author: Vanessa Soledad

how does the weight loss product Alii function?

Please choose only one answer:

- it blocks the absorption of fat in your small intestine
- it speeds up your basal metabolism
- it makes you feel fuller when you eat
- it suppresses your appetite

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

Question: [how does the weight loss product Alii funct Vanessa Soledad Exam](#)

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4.1.21. lately, there is a lot of talk about the glylcemic index (GI) of die...

Author: Vanessa Soledad

lately, there is a lot of talk about the glylcemic index (GI) of dieting. What is the glycemic index?

Please choose only one answer:

- a measure of how many grams of fat are in a particular food item
- a measure of the grams of carbs in a particular food item
- a measure of how fast the carbs are released into the blood stream
- a measure of how fast the cells perform glycolosis

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#### 4.1.22. specialized cells (like nerves and muscle cells) lose their ability...

Author: Vanessa Soledad

specialized cells (like nerves and muscle cells) lose their ability to perform mitosis after they have matured. At the end of their very final mitotic division, they enter and remain in what phase of the cell cycle?

Please choose only one answer:

- S
- M
- G1
- G2
- G0

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

Question: [specialized cells like nerves and muscle Vanessa Soledad Exam 2 Quest](#)

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#### 4.1.23. fermentation is a necessary step during anaerobic respiration

Author: Vanessa Soledad

fermentation is a necessary step during anaerobic respiration

Please choose only one answer:

- because NADH must be recycled back to NAD<sup>+</sup> in order for glycolysis to continue
- because fadh<sub>2</sub> must be recycled back to fad in order for glycolysis to continue
- so that toxic products are made as a defensive strategy against predators and parasites
- because a net gain of 2 atp molecules are generated at the end of fermentation and this is the only source of energy for the cell during anaerobic respiration

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Question: [fermentation is a necessary step during Vanessa Soledad Exam 2 Quest](#)

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4.1.24. Which of the following sequences correctly represents the flow of e...

Author: Vanessa Soledad

Which of the following sequences correctly represents the flow of electrons during photosynthesis?

Please choose only one answer:

- nadph--etc--o2
- nadph--o2--co2
- photosystem 1--nadph--photosystem 2
- photosystem I--ATP--photosystem II--NADPH

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

Question: [Which of the following sequences correctly Vanessa Soledad Exam 2](#)

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#### 4.1.25. prokaryotic cells that divide asexually

Author: Vanessa Soledad

prokaryotic cells that divide asexually

Please choose only one answer:

- divide by meiosis, producing cells that are genetically diverse from the parent cell
- divide by mitosis, producing cells that are genetically identical to the parent cell
- divide by binary fission, producing cells that are genetically identical to the parent cell
- divide by binary fission, producing cells that are genetically diverse from the parent cell.

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Question: [prokaryotic cells that divide asexually Vanessa Soledad Exam 2 Quest](#)

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#### 4.1.26. what is the role of NAD+ and FAD in cellular respiration?

Author: Vanessa Soledad

what is the role of NAD+ and FAD in cellular respiration?

Please choose only one answer:

- to remove hydrogens and electrons from glucose, forming NADH and FADH<sub>2</sub>.
- power ATP synthases
- power the proton pumps in the ETC
- remove oxygen atoms from glucose and assist in the formation of CO<sub>2</sub>

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4.1.27. in what step of cellular respiration was the CO<sub>2</sub> that you exhale pr...

Author: Vanessa Soledad

in what step of cellular respiration was the CO<sub>2</sub> that you exhale produced?

Please choose only one answer:

- electron transport chain
- krebs cycle
- glycolysis
- all of these

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

Question: [in what step of cellular respiration was Vanessa Soledad Exam 2 Quest](#)

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4.1.28. a plant has a unique photosynthetic pigment. the leaves of this pla...

Author: Vanessa Soledad

a plant has a unique photosynthetic pigment. the leaves of this plant appear to be reddish yellow. which of the following answer choices contain colors that could be absorbed by this pigment?

Please choose only one answer:

- red and yellow
- green and yellow
- blue and violet
- blue, green, and yellow
- blue , green and red

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

Question: [a plant has a unique photosynthetic pigment Vanessa Soledad Exam](#)

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#### 4.1.29. which of the following are products of light( photo) reactions of p...

Author: Vanessa Soledad

which of the following are products of light( photo) reactions of photosynthesis that are used in the Calvin cycle?

Please choose only one answer:

- electrons and H<sup>+</sup>
- ATP and NADPH
- ADP, Pi, and NADP<sup>+</sup>
- CO<sub>2</sub> and glucose
- H<sub>2</sub>O and O<sub>2</sub>

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

Question: [which of the following are products of light Vanessa Soledad Exam](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-are-products-of-light-vanessa-soledad?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-are-products-of-light-vanessa-soledad?pdf=1505>



#### 4.1.30. a product labeled as a "nutritional supplement"

Author: Vanessa Soledad

a product labeled as a "nutritional supplement"

Please choose only one answer:

- can be marketed without any reliable testing on the product
- requires a prescription for a physician
- has been evaluated by the FDA
- can always be assumed as completely safe

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

Question: [a product labeled as a nutritional supplement Vanessa Soledad Exam](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-product-labeled-as-a-nutritional-supplement-vanessa-soledad?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-a-product-labeled-as-a-nutritional-supplement-vanessa-soledad?pdf=1505>

#### 4.1.31. where does glycolysis take place?

Author: Vanessa Soledad

where does glycolysis take place?

Please choose only one answer:

- cytoplasm
- mitochondrial matrix
- inner mitochondrial membrane
- outer mitochondrial membrane

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

Question: [where does glycolysis take place Vanessa Soledad Exam 2 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-where-does-glycolysis-take-place-vanessa-soledad-exam-2-quest?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-where-does-glycolysis-take-place-vanessa-soledad-exam-2-quest?pdf=1505>

#### 4.1.32. with regards to special mechanisms of photosynthesis in hot or dry ...

Author: Vanessa Soledad

with regards to special mechanisms of photosynthesis in hot or dry climates, \_\_\_\_\_ photosynthesis separates carbon dioxide capture and the calvin cycle physically while \_\_\_\_\_, photosynthesis separates carbon dioxide capture and the calvin cycle in time.

Please choose only one answer:

- CAM, C4
- C3, CAM
- CAM, C3
- C4, CAM
- C3,C4

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

Question: [with regards to special mechanisms of Vanessa Soledad Exam 2 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-with-regards-to-special-mechanisms-of-vanessa-soledad-exam-2?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-with-regards-to-special-mechanisms-of-vanessa-soledad-exam-2?pdf=1505>

#### 4.1.33. WHY DO PLANTS PSLIT WATER MOLECULES DURING THE LIGHT REACTIONS OF P...

Author: Vanessa Soledad

#### WHY DO PLANTS PSLIT WATER MOLECULES DURING THE LIGHT REACTIONS OF PHOTOSYNTHESIS?

Please choose only one answer:

- to provide CO<sub>2</sub> for the calvin cycle
- to provide the O<sub>2</sub> necessary to convert solar energy to chemical energy
- to provide O<sub>2</sub> for the calvin cycle
- to replace electrons within the pigments in the photosystem

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

Question: [WHY DO PLANTS PSLIT WATER MOLECULES DURING Vanessa Soledad Exam 2](#)

Flashcards:

<http://www.quizover.com/flashcards/question-why-do-plants-pslit-water-molecules-during-vanessa-soledad-ex?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-why-do-plants-pslit-water-molecules-during-vanessa-soledad-ex?pdf=1505>

#### 4.1.34. you decide you're going to start exercising wherever you go. you ru...

Author: Vanessa Soledad

you decide you're going to start exercising wherever you go. you run from woodward all the way up to the library. you notice halfway up the stairs you start to cramp. What specific process(es) cause this?

Please choose only one answer:

- lack of oxygen
- lack of CO<sub>2</sub>
- ethanolic fermentation
- lactic-acid fermentation
- A and D

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

Question: [you decide you're going to start exercising Vanessa Soledad Exam](#)

Flashcards:

<http://www.quizover.com/flashcards/question-you-decide-you-re-going-to-start-exercising-vanessa-soledad-e?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-you-decide-you-re-going-to-start-exercising-vanessa-soledad-e?pdf=1505>

#### 4.1.35. which process in eukaryotic cells will proceed normally whether oxyg...

Author: Vanessa Soledad

which process in eukaryotic cells will proceed normally whether oxygen (O<sub>2</sub>) is present or absent?

Please choose only one answer:

- fermentation
- krebs cycle
- glycolysis
- electron transport chain

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

Question: [which process in eukaryotic cells will proceed Vanessa Soledad Exam](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-process-in-eukaryotic-cells-will-proceed-vanessa-soledad?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-process-in-eukaryotic-cells-will-proceed-vanessa-soledad?pdf=1505>

4.1.36. three important helpers in the process of cellular respiration are ...

Author: Vanessa Soledad

three important helpers in the process of cellular respiration are NAD<sup>+</sup>, FAD, and CoEnzyme-A. Where do they come from?

Please choose only one answer:

- the breakdown of glucose
- B vitamins from our diet
- foods high in fat
- we get them from eating plant products

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

Question: [three important helpers in the process of Vanessa Soledad Exam 2](#)

Flashcards:

<http://www.quizover.com/flashcards/question-three-important-helpers-in-the-process-of-vanessa-soledad-exa?pdf=1505>

Interactive Question:

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#### 4.1.37. in what phases of meiosis can nondisjunction occur?

Author: Vanessa Soledad

in what phases of meiosis can nondisjunction occur?

Please choose only one answer:

- metaphase 1 and telophase II
- anaphase I and telophase II
- prophase I and anaphase II
- anaphase I and anaphase II

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

Question: [in what phases of meiosis can nondisjunction Vanessa Soledad Exam](#)

Flashcards:

<http://www.quizover.com/flashcards/question-in-what-phases-of-meiosis-can-nondisjunction-vanessa-soledad?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-in-what-phases-of-meiosis-can-nondisjunction-vanessa-soledad?pdf=1505>