

Natural Sciences

Biology Exam

3

Biology #3

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4. Chapter: Biology Exam 3

1. Biology Exam 3 Questions

4.1.1. A DNA sample from an organism reveals that it is composed of 30% th...

Author: Vanessa Soledad

A DNA sample from an organism reveals that it is composed of 30% thymine. What percentage of guanine does this organism have?

Please choose only one answer:

- 30%
- 40%
- 20%
- 60%

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

Question: [A DNA sample from an organism reveals that Vanessa Soledad bio](#)

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4.1.2. what is the definition of biotechnology?

Author: Vanessa Soledad

what is the definition of biotechnology?

Please choose only one answer:

- the production of genetically identical organisms, cells or DNA molecules
- the study of living things
- the study of interactions between organisms and their environment
- the modification of organisms, cells and their molecules for practical benefits

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

Question: [what is the definition of biotechnology Vanessa Soledad bio exam](#)

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4.1.3. Typical causes of mutations include:

Author: Vanessa Soledad

Typical causes of mutations include:

Please choose only one answer:

- radiations
- spontaneous change
- chemical toxins
- all of these

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

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4.1.4. in order to be successful, chemotherapy drugs have to stop cell div...

Author: Vanessa Soledad

in order to be successful, chemotherapy drugs have to stop cell division. The most likely method for this would be to:

Please choose only one answer:

- denature all the enzymes in the cell so division can't occur
- stop cellular respiration so the cancerous cells don't have energy
- interfere with the function of the spindle fibers so the chromosomes can't separate
- speed up the cell cycle in the cancerous

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

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4.1.5. all of the following are needed in a reproductive cloning procedure...

Author: Vanessa Soledad

all of the following are needed in a reproductive cloning procedure except:

Please choose only one answer:

- a sperm cell
- a donor diploid cell
- an empty egg cell
- a surrogate mother
- all of the above

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

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4.1.6. Which statement best describes the difference between therapeutic a...

Author: Vanessa Soledad

Which statement best describes the difference between therapeutic and reproductive cloning?

Please choose only one answer:

- therapeutic cloning is used to produce stem cells for individuals which a medical condition while reproductive cloning is used to produce organisms identical to what they were cloned from
- therapeutic cloning involves producing medications while reproductive cloning is used for in vitro fertilization procedures
- there really aren't any differences between therapeutic and reproductive cloning
- therapeutic cloning procedures cells that are not genetically identical to what they were taken from while reproductive cloning produces cells that are genetically identical to what they were taken from

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

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4.1.7. Embryonic stem cells (ESC's) from research can come from any of the...

Author: [Vanessa Soledad](#)

Embryonic stem cells (ESC's) from research can come from any of the following sources except

Please choose only one answer:

- therapeutic cloning (SCNT)
- in vitro fertilization (TVF)
- terminated pregnancies
- ESC's can come from any of these sources

Check the answer of this question online at [QuizOver.com](#):

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4.1.8. Blood cells and muscle cells make different proteins because:

Author: Vanessa Soledad

Blood cells and muscle cells make different proteins because:

Please choose only one answer:

- blood cells contain only the genes for making blood cell proteins and muscle cells only contain muscle protein genes
- they are not yet differentiated
- all cells of an organism have the same genes, and express all of them
- even though both have the same genes, they express different genes

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

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4.1.9. What is a clone?

Author: Vanessa Soledad

What is a clone?

Please choose only one answer:

- an exact genetic copy of an organism
- a cell that can take up plasmids
- an offspring produced by test-tube fertilization
- a segment of DNA of specific length

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

Question: [What is a clone Vanessa Soledad bio exam 3 Quest](#)

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4.1.10. Which of the following is not a step of translation?

Author: Vanessa Soledad

Which of the following is not a step of translation?

Please choose only one answer:

- transcribe
- elongate
- terminate
- recognize

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

Question: [Which of the following is not a step of Vanessa Soledad bio exam](#)

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4.1.11. a point mutation will always cause:

Author: Vanessa Soledad

a point mutation will always cause:

Please choose only one answer:

- nucleotides to be removed from the DNA
- one nucleotide to be changed in the DNA
- a change to the amino acid
- extra nucleotides to be added to the DNA

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

Question: [a point mutation will always cause: Vanessa Soledad bio exam 3 Quest](#)

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4.1.12. which of these is not one of the major applications of biotechnology?

Author: Vanessa Soledad

which of these is not one of the major applications of biotechnology?

Please choose only one answer:

- agriculture
- historical
- enviromental
- medical

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

Question: [which of these is not one of the major Vanessa Soledad bio exam 3](#)

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4.1.13. which of the following statements about cancerous cells is false?

Author: Vanessa Soledad

which of the following statements about cancerous cells is false?

Please choose only one answer:

- cancer cells encourage glucose molecules to enter the cancer cells quickly which can be detected on a PET scan
- in most forms of cancer, there are mutations that cause an elevated expression of enzymes that facilitate glycolysis
- cancer cells generally prefer anaerobic respiration to aerobic respiration
- all of these statements are true

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

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4.1.14. which of the following is not a test for the early detection of can...

Author: Vanessa Soledad

which of the following is not a test for the early detection of cancer?

Please choose only one answer:

- PAP test
- mammogram
- colonoscopy
- all of these tests are for early detection of cancer

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

Question: [which of the following is not a test for Vanessa Soledad bio exam](#)

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4.1.15. which of the following is not an example of a genetically modified ...

Author: Vanessa Soledad

which of the following is not an example of a genetically modified organism?

Please choose only one answer:

- crops that are resistant to Roundup
- bacteria that produces human insulin
- featherless chickens
- goats that express a pharmaceutical in their milk
- all of these are genetically modified

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

Question: [which of the following is not an example Vanessa Soledad bio exam](#)

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4.1.16. the ability for cancer cells to divided indefinitely is made possib...

Author: Vanessa Soledad

the ability for cancer cells to divided indefinitely is made possible because

Please choose only one answer:

- cancer cells break down their telomeres after every cell division
- cancer cells rebuild their centromeres after every cell division
- cancer cells rebuild their telomeres after every cell division
- cancer cells break down their centromeres after every cell division
- cancer cells avoid interphase during cell division

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

Question: [the ability for cancer cells to divided Vanessa Soledad bio exam](#)

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

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

Question: [how do the chemical methods of female Vanessa Soledad bio exam 3](#)

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4.1.18. if you eat a "typical" American diet purchased from the grocery sto...

Author: Vanessa Soledad

if you eat a "typical" American diet purchased from the grocery store, you are consuming genetic material

Please choose only one answer:

- about 25% of the time
- never
- about half the time
- every day

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

Question: [if you eat a typical American diet purchased Vanessa bio exam 3 Quest](#)

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4.1.19. suppose a patient has a late-stage form of cancer that has metastas...

Author: Vanessa Soledad

suppose a patient has a late-stage form of cancer that has metastasized. if only once cancer treatment could be used, the treatment that might have a chance at helping this person would be

Please choose only one answer:

- surgery
- chemotherapy
- radiation
- inhibition of angiogenesis
- aany of these would have an equal chance of being helpful in this situation

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4.1.20. suppose we have a tomato plant that has a pest resistance gene from...

Author: Vanessa Soledad

suppose we have a tomato plant that has a pest resistance gene from bacteria added to it. This tomato plant carrying a bacterial gene could be referred to as all of the following except:

Please choose only one answer:

- cloned organism
- transgenic organism
- genetically modified organism
- all of these are appropriate terms for the tomato plant

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4.1.21. which statement is not correct concerning cell division and cancer:

Author: Vanessa Soledad

which statement is not correct concerning cell division and cancer:

Please choose only one answer:

- apoptosis can be used to kill cancerous cells in the body
- oncogenes protect against cancer
- cancerous cells can become immortal
- normal cells are limited in how many times they can divide

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

Question: [which statement is not correct concerning Vanessa Soledad bio exam](#)

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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:

- G1
- G2
- S
- M
- G0

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

Question: [Specialized cells like nerves and muscle Vanessa Soledad bio exam](#)

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4.1.23. dolly the sheep was cloned by means of

Author: Vanessa Soledad

dolly the sheep was cloned by means of

Please choose only one answer:

- taking a cell from an adult sheep and fusing it with a sheep egg that had its DNA removed
- inserting some new genes into an existing mammary cell
- applying an electric current to an egg and sperm in a laboratory
- taking an embryo from one sheep and implanting it into another
- getting sperm to fuse with an egg outside a living sheep

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

Question: [dolly the sheep was cloned by means Vanessa Soledad bio exam 3 Quest](#)

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4.1.24. how do mutations affect an organism?

Author: Vanessa Soledad

how do mutations affect an organism?

Please choose only one answer:

- they may cause the development of a more beneficial allele
- they, in some cases, may have no noticeable affect
- they may cause the development of a disease-causing allele
- all of the above

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

Question: [how do mutations affect an organism Vanessa Soledad bio exam 3 Quest](#)

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

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

Question: [Prokaryotic cells that divide asexually: Vanessa Soledad bio exam](#)

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4.1.26. the following represent steps of the cloning process which are not ...

Author: Vanessa Soledad

the following represent steps of the cloning process which are not in the correct order. Select the choice that puts these steps in the proper order. 1. fuse egg with a diploid cell. 2. remove the nucleus from an egg cell. 3. insert embryo into a surrogate mother. 4 extract diploid cell rom an adult donor. 5. allow mitosis to form the embryo.

Please choose only one answer:

- 4,1,2,5,3
- 3,2,1,4,5
- 1,2,3,4,5
- 5,2,1,3,4
- 2,4,1,5,3

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4.1.27. _____ is the process where cells commit to a fate and "decide" wha...

Author: Vanessa Soledad

_____ is the process where cells commit to a fate and "decide" what specialized cell type they will become.

Please choose only one answer:

- growth
- fertilization
- differentiation
- derivation

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Question: [is the process where cells commit to a Vanessa Soledad bio exam 3](#)

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4.1.28. these deliver amino acids to the ribosome during protein synthesis ...

Author: Vanessa Soledad

these deliver amino acids to the ribosome during protein synthesis (translation)

Please choose only one answer:

- RNA polymerase
- messenger RNA
- ribosomal RNA
- transfer RNA

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4.1.29. in what phases of meiosis can nondisjunction occur?

Author: Vanessa Soledad

in what phases of meiosis can nondisjunction occur?

Please choose only one answer:

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

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4.1.30. crossing over occurs between homologous chromosomes

Author: Vanessa Soledad

crossing over occurs between homologous chromosomes

Please choose only one answer:

- prophase I
- metaphase I
- telophase I
- metaphase II
- telophase II

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4.1.31. homologous chromosomes align in the equator of the cell

Author: Vanessa Soledad

homologous chromosomes align in the equator of the cell

Please choose only one answer:

- prophase I
- metaphase I
- telophase I
- anaphase II
- telophase II

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

Question: [homologous chromosomes align in the equator Vanessa bio exam 3 Quest](#)

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4.1.32. 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:

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

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

Question: [it is said that most cells can divide Vanessa Soledad bio exam 3](#)

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4.1.33. specific genes that encode proteins that regulate cell growth via t...

Author: Vanessa Soledad

specific genes that encode proteins that regulate cell growth via the cell cycle

Please choose only one answer:

- growth factor genes
- metastasis regulators
- tumor supressor genes
- protooncogenes
- angiogenesis genes

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

Question: [specific genes that encode proteins that Vanessa Soledad bio exam](#)

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4.1.34. embryonic stem cells are derived from

Author: Vanessa Soledad

embryonic stem cells are derived from

Please choose only one answer:

- fetal tissue
- umbilical cord blood
- a blastocyst
- bone marrow

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

Question: [embryonic stem cells are derived from Vanessa Soledad bio exam 3](#)

Flashcards:

<http://www.quizover.com/flashcards/question-embryonic-stem-cells-are-derived-from-vanessa-soledad-bio-exa?pdf=1505>

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4.1.35. which statement is true concerning genetically modified (GM) crops ...

Author: Vanessa Soledad

which statement is true concerning genetically modified (GM) crops in the united states?

Please choose only one answer:

- GM crops are defined by having extra genes added to them
- the USDA has not approved the use of GM crops
- crops produced by selective breeding are considered to be GM crops
- they must be labeled as GM
- all of these are labeled as true statements

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

Question: [which statement is true concerning Vanessa Soledad bio exam 3 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-statement-is-true-concerning-vanessa-soledad-bio-exam-3?pdf=1505>

Interactive Question:

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4.1.36. which of the following are valid concerns about the use of stem cel...

Author: Vanessa Soledad

which of the following are valid concerns about the use of stem cells for research purpose?

Please choose only one answer:

- adult stem cells have limited potency
- depending on the source, rejection may be an issue
- adult stem cells may have DNA abnormalities
- ESC's may form teratomas in individuals
- all of these are valid concerns

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

Question: [which of the following are valid concerns Vanessa Soledad bio exam](#)

Flashcards:

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

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4.1.37. how does DNA differ from RNA?

Author: Vanessa Soledad

how does DNA differ from RNA?

Please choose only one answer:

- dna uses deoxyribose sugar;RNA uses ribose sugar
- DNA uses the bases A, T, C and G; RNA uses the bases A,U,C and G.
- DNA is a double stranded molecule, RNA is a single stranded molecule
- All of the above are differences

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

Question: [how does DNA differ from RNA Vanessa Soledad bio exam 3 Quest](#)

Flashcards:

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Interactive Question:

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4.1.38. 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:

- 0
- 20
- 10
- 40

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

Question: [an animal cell contains a total diploid Vanessa Soledad bio exam](#)

Flashcards:

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Interactive Question:

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4.1.39. scientists have inserted a gene from the bacterium Bacillus thuring...

Author: Vanessa Soledad

scientists have inserted a gene from the bacterium Bacillus thuringiensis into corn plants in order to:

Please choose only one answer:

- lengthen the ripening time of the corn so it can be shipped longer distances
- decrease the toxicity of bacillus thuringiensis
- increase the corn's resistance to insects
- directly increase the growth rate of the corn
- increase the sweetness of the corn

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

Question: [scientists have inserted a gene from the Vanessa Soledad bio exam](#)

Flashcards:

<http://www.quizover.com/flashcards/question-scientists-have-inserted-a-gene-from-the-vanessa-soledad-bio?pdf=1505>

Interactive Question:

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4.1.40. cancer cells:

Author: Vanessa Soledad

cancer cells:

Please choose only one answer:

- exhibit contact inhibition
- can divide indefinitely
- always move to a new locations in the body
- all of these

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

Question: [cancer cells: Vanessa Soledad bio exam 3 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-cancer-cells-vanessa-soledad-bio-exam-3-quest?pdf=1505>

Interactive Question:

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4.1.41. which of these terms is matched incorrectly?

Author: Vanessa Soledad

which of these terms is matched incorrectly?

Please choose only one answer:

- adult stem cells- multi potent stem cells that give rise to a small number of types committed to differentiating
- umbilical stem cells- stem cells that give rise to a small number of types committed to differentiating but are collected from umbilical cord of a newborn
- all of these answers are correct
- embryonic-stem cells that can only differentiate into one specific cell type

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

Question: [which of these terms is matched incorrectly Vanessa bio exam 3 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-these-terms-is-matched-incorrectly-vanessa-bio-exam?pdf=1505>

Interactive Question:

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4.1.42. 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 in Figure 1?

Please choose only one answer:

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

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

Question: [what would be the correct diagnosis for Vanessa Soledad bio exam](#)

Flashcards:

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