Cells and Heredity Chapter 4 Test

Name:	 	 	 _
Date:	 	 	

- 1 Cancer is a disease in which cells
 - A grow and divide uncontrollably.
 - B die before they can mature.
 - C stop producing DNA.
 - D die during mitosis.
- 2 Scientists think cancer begins when
 - A a mutation occurs in DNA.
 - B a cell divides too slowly.
 - C DNA replication stops.
 - D cells stop growing.
- 3 What is chemotherapy?
 - A the use of drugs to treat a disease
 - B the use of surgery to treat a disease
 - C the use of radiation to treat a disease
 - D the use of drugs to prevent cancer from occurring
- 4 The order of the bases along a gene determines the order in which
 - A sugars are put together to form a carbohydrate.
 - B phosphates are arranged in DNA.
 - C amino acids are put together to form a protein.
 - D chromosomes are arranged in the nucleus.
- 5 What does messenger RNA do during protein synthesis?
 - A copies the coded message from the DNA and carries it into the cytoplasm
 - B copies the coded message from the DNA and carries it into the nucleus
 - C carries amino acids and adds them to the growing protein
 - D copies the coded message from the protein and carries it into the nucleus

6	Where d	nere does protein synthesis take place?					
	Α	in the ribosomes in the nucleus of the cell					
	В	on the ribosomes in the cytoplasm of the cell					
	С	in the chromosomes in the nucleus of the cell					
	D	on the chromosomes in the cytoplasm of the cell					
7	All of the	All of the following nitrogen bases in RNA are part of DNA, except					
	А	adenine.					
	В	guanine.					
	С	cytosine.					
	D	uracil.					
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8	How many different types of cancer are there?						
	Α	10					
	В	over 100					
	С	over 500					
	D	over 1,000					
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9	what is	a cancer tumor?					
	Α	a group of cells in the bloodstream					
	В	a mass of normal cells					
	С	a mass of abnormal cells					
	D	a mass of cells that don't divide					
10	During DNA replication, adenine (A) always pairs with						
	Α	guanine (G).					
	В	cytosine (C).					
	С	thymine (T).					
	D	adenine (A).					

- 11 What is a mutation?
 - A any change that is harmful to an organism
 - B any change in a gene or chromosome
 - C any change that is helpful to an organism
 - D any change in the phenotype of a cell
- 12 How can a mutation affecting skin be harmful to an animal?
 - A It can make the animal more visible to its prey or predators.
 - B It can cause disease in the animal.
 - C It can make the animal resistant to certain diseases.
 - D It can make the animal resistant to drugs.
- 13 During protein synthesis, the protein continues to grow until
 - A amino acid is added.
 - B the tRNA is released and picks up another amino acid.
 - C the ribosome reaches a three-base code that signals it to stop.
 - D transfer molecules attach to the ribosome.
- 14 What forms a genetic code?
 - A the number of daughter cells in an organism
 - B the order of nitrogen bases along a gene
 - C the order of proteins along a gene
 - D the number of phosphates in a DNA strand