Name _____ Date _____

Biology

Aging: It Is in Our Cells

Multiple Choice

For each question, select the best answer from the four alternatives.

1. Telomeres
   a) in older cells do not line up.
   b) stand guard over the orientation of centromeres.
   c) protect chromosomes from damage during cell division.
   d) are like shoelaces.

2. Daughter cells with defective copies of the gene *COX-2* can lead to
   a) old age.
   b) Alzheimer's disease and osteoporosis.
   c) heart and kidney failure.
   d) faulty cell divisions.

3. The topic sentence of paragraph 3 is
   a) the first sentence of the paragraph.
   b) the second sentence of the paragraph.
   c) the fourth sentence of the paragraph.
   d) the last sentence of the paragraph.

4. *COX-2* is
   a) a mutant gene.
   b) an example of an "aging gene".
   c) a defective gene.
   d) a protein produced by a gene.

Short Answer

Summarize this selection Include the main idea and one relevant point that supports it.

5. _____

_____

_____

_____

Name	Answer Key	Date	

Biology

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Short Answer

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5. As we get older, the number of faulty cell divisions in our bodies increases. This can lead to such ailments as Alzheimer's disease, osteoporosis, or heart and kidney failure. Aging is related to cancer, so a cure for one may also be a cure for the other.