

Cell Biology

Name:

Control of the Cell Cycle

Period:

Use Chapter 5, Section 2 of your textbook to answer the questions below.

Control of the Cell Cycle (p.156)

1. Look at Figure 6. According to the diagram, a cell spends most of its time in _____.
2. Which of the following do parent cells replicate (copy) during interphase?
 - a. chromatids and centromeres
 - b. chromosomes and organelles
 - c. chloroplasts and chlorophyll
 - d. eukaryotes and prokaryotes

Feedback Switches (p.156)

3. The messages which cells use to report conditions are called _____.
4. Feedback turns on or off a set of switches in the cell that work like _____.
5. Proteins that make molecules get a signal to _____ the production of a molecule if feedback indicates that there is too much of that molecule.
6. If there is too much of a certain molecule, a signal to _____ the breakdown of the molecule would be sent to proteins that break down the molecule.
7. Feedback switches control the _____.
8. After organelles and chromosomes are copied, the cell prepares for _____.

Cancer (p.157)

Match the correct description with the correct term.

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|---|---------------------------|
| _____ 9. tumor caused by uncontrolled growth of cells | a. skin cancer prevention |
| _____ 10. feedback switches in cells | b. melanoma |
| _____ 11. deadly kind of skin cancer | c. tumors |
| _____ 12. clumps formed when cells reproduce too rapidly | d. cancer |
| _____ 13. actions, such as wearing sunscreen and checking skin for abnormal moles | e. protein |



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