

## Cell Biology

Name:

### Control of the Cell Cycle

Period:

Use Chapter 5, Section 2 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them.

begin   cell cycle   division   feedback   interphase   stop   traffic lights

#### 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 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 \_\_\_\_\_ producing the molecule if feedback indicates that there is too much of that molecule.
6. At the same time, 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.

- |   |                           |
|---|---------------------------|
| _____ 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                |

