Chapter 10

Cell Growth and Division

Section 10-1 Cell Growth (pages 241-243)

This section explains what problems growth causes for cells.

Limits to Cell Growth (pages 241-243)

- What are two reasons why cells divide rather than continue to grow indefinitely?
 - a. The larger a cell becomes, the more demands the cell places on its DNA.
 - b. The larger a cell becomes, the more trouble the cell has moving nutrients and wastes across the cell membrane.
- Circle the letter of what determines the rate at which food and oxygen in a cell are used up and waste products produced.
 - a. The cell's organelles
 - (b) The cell's volume
 - c. The cell's location.
 - d. The cell's DNA
- How can you obtain a cell's ratio of surface area to volume? Divide the surface area by the
 volume.
- If a cell's surface area is 6 cm³ and its volume is 1 cm³, then what is its ratio of surface area to volume? ______6 / 1 or 6 : 1
- Is the following sentence true or false? As a cell grows in size, its volume increases much more rapidly than its surface area.

TITLE

- Circle the letter of what happens to a cell's ratio of surface area to volume as the cell's volume increases more rapidly than its surface area.
 - (a) The ratio decreases.
 - b. The ratio increases.
 - c. The ratio remains the same.
 - d. The ratio disappears.
- What is cell division? Cell division is the process by which a cell divides into two new daughter cells.
- How does cell division solve the problem of increasing size? <u>Cell division reduces cell</u> votume.

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