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Ryan Johnson Biology 8e Chapter 10 - Answers

1. Which of the following is NOT involved in binary fission in prokaryotes?

- Replication of DNA
- Elongation of the cell
- Separation of daughter cells by septum formation
- Assembly of the nuclear envelope

The correct answer is d. —

A. Answer is incorrect. There must be two copies of the cell's genetic material in order for cell division to occur. Both daughter cells need their own copy of the parent cell's DNA.

B. Answer is incorrect. Elongation is a necessary step to increase cell volume and eventually divide into two new daughter cells.

C. Answer is incorrect. Binary fission is not complete until the parent cell has divided into two daughter cells. This process occurs through the formation of a septum in prokaryotic cells.

The correct answer is d. —

D. Prokaryotic cells do not possess internal membranes. Their DNA exists within the cytoplasm and is not contained in a nuclear envelope.

2. Chromatin is composed of —

- RNA and protein
- DNA and protein
- single chromatids
- chromosomes

The correct answer is b. —

A. Answer is incorrect. Although RNA is associated with chromosomes, the term chromatin refers to the material that physically makes up the chromosome, which is DNA and protein.

B. Answer is correct. When DNA binds with histone proteins it forms chromatin.

C. Answer is incorrect. Single chromatids are composed of chromatin, not the other way around.

D. Answer is incorrect. Chromosomes are composed of chromatin.

3. What is a nucleosome?

- It is a region of the cell's nucleus that contains chromosomes.
- It is a region of DNA wound around a collection of histone proteins.
- It is a region of a chromosome made up of multiple loops of chromatin.
- It is a region that is found in chromosomes.

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