
Understanding Pathophysiology 7th Edition Questions with Answers Test Bank

Chapter 1. Cellular Biology

MULTIPLE CHOICE

1. A student is observing a cell under the microscope. It is observed to have supercoiled DNA with histones. Which of the following would also be observed by the student?

- a. A single circular chromosome
- b. A nucleus
- c. Free-floating nuclear material
- d. No organelles

ANS: B

The cell described is a eukaryotic cell, so it has histones and a supercoiled DNA within its nucleus; thus, the nucleus should be observed.

A single circular chromosome is characteristic of prokaryotic cells, which do not have histones.

Free-floating nuclear material describes a prokaryotic cell, which would not have a distinct nucleus.

Eukaryotic cells have membrane bounded cellular components called organelles. No organelles describes a prokaryotic cell.

2. A nurse is instructing the staff about cellular functions. Which cellular function is the nurse describing when an isolated cell absorbs oxygen and uses it to transform nutrients to energy?

- a. Metabolic absorption
- b. Communication
- c. Secretion
- d. Respiration

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Yicheng Fang



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