

Mastering Biology Ch 9 Questions With Correct Answers| Latest Update Graded A+

Imagine that you are looking at a eukaryotic cell in the microscope. When you examine the cell's nucleus, you see that the chromatin is spread uniformly through the nucleus—you cannot see chromosomes. Has the cell's DNA been replicated yet? Explain. ✓✓you cannot tell whether the DNA has replicated unless the DNA is condensed.

Imagine that you are looking at a eukaryotic cell in the microscope. When you examine the cell, you see that the nucleus is not present and that chromosomes are condensed and lined up independently in single-file in the center of the cell. What possible stage of division might you be observing in this cell? ✓✓Metaphase of mitosis or meiosis II

A clone is _____. ✓✓any cell or organism that is genetically identical to another

When a cell divides, what must it pass on to its offspring? ✓✓both a complete set of chromosomes and cytoplasmic components needed for transcription and translation

Cytokinesis following mitosis differs in animal and plant cells because _____. ✓✓plant cells have cell walls

Alternate forms of a particular gene are called _____. they arise as a result of _____. ✓✓alleles; mutation

The term haploid refers to _____. ✓✓cells that contain only one of each type of chromosome

Which of the following statements about the chromosomes of prokaryotic and eukaryotic cells is true? ✓✓the chromosomes of a prokaryotic cell is a circular DNA double helix, whereas the chromosomes of eukaryotic cells are linear DNA double helices

Which organisms spend most of their life cycle in the haploid state? ✓✓fungi and unicellular algae

Nuclear envelopes form during _____. ✓✓telophase

The copying of chromosomes occurs during _____. ✓✓S phase

During prophase of mitosis, _____. ✓✓the spindle microtubules attach to the chromosomes

Answers To Mastering Biology Ch 7

M Tight



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