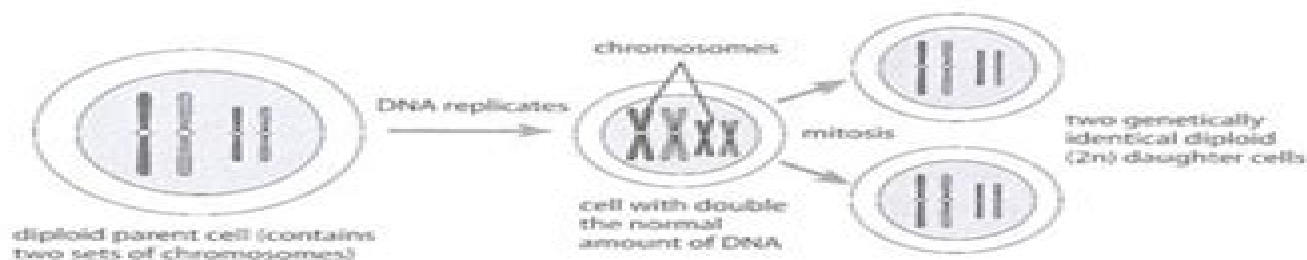


16 Cell Division

IMPORTANT DEFINITIONS

1. **Growth** is the permanent increase in size or complexity, due to cell enlargement, cell division and/or cell differentiation to form tissues and organs.
2. A **chromosome** is made up of two long, double-stranded (paired) deoxyribonucleic acid (DNA) molecules that are tightly coiled around protein molecules. Chromosomes contain genes, which carry the information needed for cellular activities.
3. A **diploid** ($2n$) cell, such as a normal body cell, contains two sets of chromosomes. It is said to contain the full number of chromosomes.
4. A **haploid** (n) cell, such as a gamete, contains only one set of chromosomes. This means it has half the number of chromosomes of a diploid cell.
5. **Mitosis** is the process in which a cell nucleus divides to produce two daughter nuclei with the same set of chromosomes as the parent nucleus (**genetically identical**).



6. **Meiosis**, also known as **reduction division**, is a nuclear division that produces daughter nuclei with half the number of chromosomes as the parent nucleus. It involves two cycles of divisions.



7. The **cell cycle** is the sequence of events that occurs between two consecutive cell divisions.

General Biology 111 Lab Manual Answers

Peipei Pang



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