

Name: **ANSWER KEY**

Date : \_\_\_\_\_ Period: \_\_\_\_\_

**Genetics and Heredity Unit Study Guide/Practice Test 2013-2014**

**Section 1 Cell Division**

What are the two types of cell division that we have discussed in this unit?

1. **Mitosis**                      2. **Meiosis**

Complete the following chart:

Type of cell division	<b>Mitosis</b>	<b>Meiosis</b>
Cell starts out as a body (somatic) or sex cell?	<b>Somatic cell</b>	<b>Somatic cell</b>
Function of this process	<b>To create more somatic cells. Growth and repair of body cells, tissues, and organs.</b>	<b>Production of gametes (egg and sperm)</b>
Initial cell is haploid or diploid?	<b>Diploid</b>	<b>Diploid</b>
Nucleus divides once or twice?	<b>Once</b>	<b>Twice</b>
Number of daughter cells at end of cell division?	<b>2</b>	<b>4</b>
End product is a body (somatic) cell or gamete?	<b>Somatic cells</b>	<b>Gametes</b>
End product is diploid or haploid	<b>Diploid</b>	<b>Haploid</b>
If there are 3 pairs of homologous chromosomes in the cell at the beginning of cell division, how many chromosomes will be in each cell at the end of cell division?	<b>6</b>	<b>3</b>

1. A human body cell contains **23** pairs of **homologous** chromosomes or a total of **46** chromosomes.

**\*\*Note: Homologous chromosomes are pairs of chromosomes in which one chromosome comes from the mother and one comes from the father. Homologous chromosomes are similar but not identical. Each carries the same genes in the same order, but the alleles for each trait may not be the same.**

2. What occurs during mitotic cell divisions:

**During mitosis and cell division, the chromosomes duplicate and then separate. At the end of mitosis, a new nucleus forms around each new set of chromosomes and then the cell divides in a process called cytokinesis. This creates two new identical daughter cells.**

# Genetics Unit Test Answer Key

**Peipei Pang**



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Proceedings of the European Cognitive Science Conference 2007 Stella Vosniadou, 2017-09-29 This volume contains the invited lectures invited symposia symposia papers and posters presented at the 2nd European Cognitive Science Conference held in Greece in May 2007 The papers presented in this volume range from empirical psychological studies and computational models to philosophical arguments meta analyses and even to neuroscientific experimentation The quality of the work shows that the Cognitive Science Society in Europe is an exciting and vibrant one There are 210 contributions by cognitive scientists from 27 different countries including USA France UK Germany Greece Italy Belgium Japan Spain the Netherlands and Australia This book will be of interest to anyone concerned with current research in Cognitive Science

**Modules** McDougal Littell Incorporated, 2005

**Bioinformatics: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2013-03-31 Bioinformatics Concepts Methodologies Tools and Applications highlights the area of bioinformatics and its impact over the medical community with its innovations that change how we recognize and care for illnesses Provided by publisher

**Midland Schools**, 1927

*Genomic medicine* Great Britain: Parliament: House of Lords: Science and Technology Committee, 2009-07-07 Volume 1 Report also available ISBN 9780108444517 Genomic medicine has developed from the sequencing of the human genome

**Annual Report** Illinois. Office of Ecotoxicology, 1987

**Concepts of Genetics** Harry Nickla, 2005-05 This valuable handbook provides a detailed step by step solution or lengthy discussion for every problem in the text The handbook also features additional study aids including extra study problems chapter outlines vocabulary exercises and an overview of how to study genetics

**Resources in Education**, 1986-10

Resources in Education, 1990

**Discovering Molecular Genetics** Jeffrey H. Miller, 1996

**Wall Street Journal Index**, 1989

**Genetics** Daniel L. Hartl, 1994

Abstracts of the ... General Meeting of the American Society for Microbiology American Society for Microbiology. General Meeting, 2008

**Biology** Cecie Starr, 1994 This streamlined book distills biology's key concepts and connects them to the lives of students with numerous timely applications including compelling new vignettes at the beginning of each chapter Once again Starr created new remarkably clear illustrations to help explain complex biological concepts As with every new edition she continues to simplify and enliven the writing without sacrificing accuracy The author has done a major revision of each chapter so that there is extensive updating and organizational changes to enhance the text's flow As the following features indicate the major thrust of the new edition is to enhance accessibility and further stimulate

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