

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                                                                                                                                                | <u>Mitosis</u>                                                                             | <u>Meiosis</u>                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------|
| Cell starts out as a body (somatic) or sex cell?                                                                                                                     | <u>Somatic cell</u>                                                                        | <u>Somatic cell</u>                          |
| Function of this process                                                                                                                                             | <u>To create more somatic cells. Growth and repair of body cells, tissues, and organs.</u> | <u>Production of gametes (egg and sperm)</u> |
| Initial cell is haploid or diploid?                                                                                                                                  | <u>Diploid</u>                                                                             | <u>Diploid</u>                               |
| Nucleus divides once or twice?                                                                                                                                       | <u>Once</u>                                                                                | <u>Twice</u>                                 |
| Number of daughter cells at end of cell division?                                                                                                                    | <u>2</u>                                                                                   | <u>4</u>                                     |
| End product is a body (somatic) cell or gamete?                                                                                                                      | <u>Somatic cells</u>                                                                       | <u>Gametes</u>                               |
| End product is diploid or haploid?                                                                                                                                   | <u>Diploid</u>                                                                             | <u>Haploid</u>                               |
| 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? | <u>6</u>                                                                                   | <u>3</u>                                     |

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 division:

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 Guide Key

**Daniel L. Hartl, Elizabeth W. Jones**



## **Genetics Guide Key:**

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[A Guide to Genetic Counseling](#) Vivian Y. Pan,Jane L. Schuette,Karen E. Wain,Beverly M. Yashar,2024-10-22 A comprehensive 3rd edition of the bestselling gold standard textbook in genetic counseling The medical and scientific knowledge areas of practice and individuals and families served by genetic counseling have evolved enormously since the advent of this profession Since 1998 A Guide to Genetic Counseling has served as the field s seminal text both in the US and internationally training generations of genetic counselors to serve patients and deliver high quality guidance and care Ongoing developments in the practice of genetic counseling and genetic testing play key roles in expanding the ways that genetic based care can support individuals and families as they make difficult and life altering decisions This updated version reflects these changes and the increasing body of supporting research It is a must own for anyone looking to understand the principles and guidelines of this essential component of medicine Readers of the third edition of A Guide to Genetic Counseling will also find Every chapter significantly updated to reflect the latest research and practice standards A text written by genetic counselors for genetic counselors A practice driven volume that reflects the guidelines from the Accreditation Council of Genetic Counseling and the American Board of Genetic Counseling A Guide to Genetic Counseling is an ideal resource to support the training of the next generation of genetic counselors including

students of both national and international programs instructors clinical supervisors program directors and practicing genetic counselors

**A Field Guide to Genetic Programming**, 2008 Genetic programming GP is a systematic domain independent method for getting computers to solve problems automatically starting from a high level statement of what needs to be done Using ideas from natural evolution GP starts from an ooze of random computer programs and progressively refines them through processes of mutation and sexual recombination until high fitness solutions emerge All this without the user having to know or specify the form or structure of solutions in advance GP has generated a plethora of human competitive results and applications including novel scientific discoveries and patentable inventions This unique overview of this exciting technique is written by three of the most active scientists in GP See [www.gp-field-guide.org.uk](http://www.gp-field-guide.org.uk) for more information on the book

Laboratory Guide to the Methods in Biochemical Genetics Nenad Blau, Frédéric M. Vaz, 2024-11-01 Now in its 2nd edition this manual describes laboratory methodology for the diagnosis of inherited metabolic diseases The book describes a spectrum of tests from simple screening methods via classical methods that are operational in most if not all biochemical laboratories to analytical methods that depend on technologies that very few are currently employing in their labs but are certainly the functional techniques in a biochemical laboratory in this post genomics era Each chapter is sufficiently detailed to be self contained thus enabling laboratory specialists to adopt the method in their own laboratory and obviating the need for additional methods or references The second updated edition of the book is unique in that it is the first of its kind to be published in the last 13 years and individual chapters have been developed by experts in the field citing both established and cutting edge omics technology Thus it is an indispensable resource for researchers and clinicians working on the field of inherited metabolic diseases and those interested in laboratory diagnoses

**A Slacker's Guide to Genetics** William Webb, Discover the fascinating world of genetics in this comprehensive and engaging guide which delves into the very core of life itself From the simplest organisms to the complexities of the human body this book unravels the mysteries of heredity molecular biology and evolution providing readers with a deeper understanding of the intricate workings of life Written in a friendly and conversational tone this guide is designed to be accessible to readers of all backgrounds from curious novices to seasoned enthusiasts Subtle humor is sprinkled throughout making the learning experience both enjoyable and informative Each chapter is meticulously crafted to build upon the previous one ensuring a coherent and captivating journey through the world of genetics In this book you will explore the history of genetic research from Mendel's groundbreaking work with pea plants to the awe inspiring advances in biotechnology and genome editing Along the way you will encounter the renowned scientists who have shaped our understanding of genetics and gain insights into the ethical considerations that accompany the ever evolving field You will also discover key terms and concepts that will help you navigate the complex world of genetics as well as additional resources to further your understanding and satisfy your curiosity This book will inspire you to delve deeper into the subject spark your imagination and fuel your passion for

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Uhlmann, Jane L. Schuette, Beverly M. Yashar, 2011-09-20 The first book devoted exclusively to the principles and practice of genetic counseling now in a new edition First published in 1998 *A Guide to Genetic Counseling* quickly became a bestselling and widely recognized text used nationally and internationally in genetic counseling training programs Now in its eagerly anticipated Second Edition it provides a thoroughly revised and comprehensive overview of genetic counseling focusing on the components theoretical framework and unique approach to patient care that are the basis of this profession The book defines the core competencies and covers the genetic counseling process from case initiation to completion in addition to addressing global professional issues with an emphasis on describing fundamental principles and practices Chapters are written by leaders in the field of genetic counseling and are organized to facilitate academic instruction and skill attainment They provide the most up to date coverage of The history and practice of genetic counseling Family history Interviewing Case preparation and management Psychosocial counseling Patient education Risk communication and decision making Medical genetics evaluation Understanding genetic testing Medical documentation Multicultural counseling Ethical and legal issues Student supervision Genetic counseling research Professional development Genetics education and outreach Evolving roles and expanding opportunities Case examples *A Guide to Genetic Counseling* Second Edition belongs on the syllabi of all medical and human genetics and genetic counseling training programs It is an indispensable reference for both students and healthcare professionals working with patients who have or are at risk for genetic conditions     *Telecourse Student Guide*

Richard O. Straub, Kathleen Stassen Berger, Coast Learning Systems, 2002-11-22     **Essential Genetics** Daniel L. Hartl, Elizabeth W. Jones, 2006 Completely updated to reflect new discoveries and current thinking in the field the Fourth Edition of *Essential Genetics* is designed for the shorter less comprehensive introductory course in genetics The text is written in a clear lively and concise manner and includes many special features that make the book user friendly Topics were carefully chosen to provide a solid foundation for understanding the basic processes of gene transmission mutation expression and regulation The text also helps students develop skills in problem solving achieve a sense of the social and historical context in which genetics has developed and become aware of the genetic resources and information available through the Internet     **The Practical Guide to the Genetic Family History** Robin L. Bennett, 2004-03-24 The Practical

Guide to The Genetic Family History Robin L Bennett Compiling the most recent genetic developments in medical specialties The Practical Guide to the Genetic Family History is a valuable resource which outlines the proper methods for taking and recording a patient's family medical history allowing primary care physicians to be more efficient in diagnosing conditions with potential genetic components With genetic screening forms an overview of directed questions pedigree nomenclature

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