#### LIFE SCIENCES GRADE 12 - PAPER 2 (Answers from past Assessment Guidelines)

#### MEIOSIS

# STRUCTURE AND ARRANGEMENT OF CHROMOSOMES IN A NORMAL HUMAN KARYOTYPE

- Each chromosome comprises two chromatids
- held together by a centromere
- There are 23 pairs√/46 chromosomes in
- human somatic cells //body cells
- which are arranged into homologous pairs√
- that are similar in length
- carry genes for the same characteristics
- have alleles of a particular gene at the same loci√and
- have the same centromere position
- Each somatic cell has 22 pairs/44 autosomes√and
- a pair/2 gonosomes√/sex chromosomes/X and Y chromosomes
- Autosomes are arranged in pairs from largest to smallest in a karyotype
- Males have XY chromosomes√
- Females have XX chromosomes
- The X chromosome is larger than the Y chromosome

#### BEHAVIOUR OF THE CHROMOSOMES DURING THE DIFFERENT PHASES OF MEIOSIS I

- During prophase√ I
- chromosomes pair\(\sigma\) up/homologous pairs /bivalents form
- Crossing overviexchange of genetic material occurs
- between chromatids //adjacent chromosome pairs
- During metaphase√ I of meiosis
- homologous chromosomes-//chromosome pairs are arranged
- at the equatory of the cell
- In a random√ way
- with the chromosome attached to the spindle fibre.
- During anaphase ✓ I
- chromosome pairs separate //chromosomes move to opposite poles
- During telophase ✓ I
- the chromosomes reach the poles of the cell

#### **EVENTS THAT LEAD TO DOWN SYNDROME**

- Non-disjunction occurred ✓/A homologous pair of chromosomes
- at position 21√
- failed to separate/
- during anaphase
- resulting in one gamete with 24 chromosomes / / an extra chromosome / chromosomes at position 21
- The fertilisation of this gamete with a normal gamete //gamete with 23 chromosomes /1 chromosome at position 21
- results in a zygote with 47 chromosomes
- There are 3 chromosomes √/an extra chromosome at position 21/this is Trisomy 21

# **14 Life Sciences Possible Essays**

**Martin Zwick** 

#### 14 Life Sciences Possible Essays:

Education and Ethics in the Life Sciences Brian Rappert, 2010-06-01 At the start of the twenty first century warnings have been raised in some quarters about how by intent or by mishap advances in biotechnology and related fields could aid the spread of disease Science academics medical organisations governments security analysts and others are among those that have sought to raise concern EDUCATION AND ETHICS IN THE LIFE SCIENCES examines a variety of attempts to bring greater awareness to security concerns associated with the life sciences It identifies lessons from practical initiatives across a wide range of national contexts as well as more general reflections about education and ethics The eighteen contributors bring together perspectives from a diverse range of fields including politics virology sociology ethics security studies microbiology and medicine as well as their experiences in universities think tanks and government In offering their assessment about what must be done and by whom each chapter addresses a host of challenging practical and conceptual questions EDUCATION AND ETHICS IN THE LIFE SCIENCES will be of interest to those planning and undertaking training activities in other areas In asking how education and ethics are being made to matter in an emerging area of social unease it will also be of interest to those with more general concerns about professional conduct *Methodological and Historical* Essays in the Natural and Social Sciences Robert S. Cohen, Marx W. Wartofsky, 2012-12-06 Modem philosophy of science has turned out to be a Pandora's box Once opened the puzzling monsters appeared not only was the neat structure of classical physics radically changed but a variety of broader questions were let loose bearing on the nature of scientific inquiry and of human knowledge in general Philosophy of science could not help becoming epistemological and historical and could no longer avoid metaphysical questions even when these were posed in disguise Once the identification of scientific methodology with that of physics had been queried not only did biology and psychology come under scrutiny as major modes of scientific inquiry but so too did history and the social sciences particularly economics sociology and anthropology And now new monsters are emerging for example medicine and political science as disciplined inquiries This raises anew a much older question namely whether the conception of science is to be distinguished from a wider conception of learning and inquiry Or is science to be more deeply understood as the most adequate form of learning and inquiry whose methods reach every domain of rational thought Is modern science matured reason or is it simply one historically adapted and limited species of western reason In our colloquia at Boston University over the past fourteen years we have been probing and testing the scope of philosophy of science Essay on Transcendental Philosophy Salomon Maimon, 2010-04-15 Salomon Maimon was one of the most important and influential Jewish intellectuals of the Enlightenment This is the first English translation of his principal work first published in Berlin in 1790 The Cricket Field; Or, The History and the Science of Cricket J. P., Author of The principles of scientific batting, James Pycroft, 1851 Letters Essays and Thoughts on Studies and Conduct Henry Barnard, 2023-07-23 Reprint of the original first published in 1873 The publishing house Anatiposi publishes historical

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#### **Table of Contents 14 Life Sciences Possible Essays**

- 1. Understanding the eBook 14 Life Sciences Possible Essays
  - The Rise of Digital Reading 14 Life Sciences Possible Essays
  - Advantages of eBooks Over Traditional Books
- 2. Identifying 14 Life Sciences Possible Essays
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 14 Life Sciences Possible Essays
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from 14 Life Sciences Possible Essays
  - Personalized Recommendations
  - 14 Life Sciences Possible Essays User Reviews and Ratings
  - 14 Life Sciences Possible Essays and Bestseller Lists
- 5. Accessing 14 Life Sciences Possible Essays Free and Paid eBooks
  - 14 Life Sciences Possible Essays Public Domain eBooks
  - 14 Life Sciences Possible Essays eBook Subscription Services
  - 14 Life Sciences Possible Essays Budget-Friendly Options

- 6. Navigating 14 Life Sciences Possible Essays eBook Formats
  - o ePub, PDF, MOBI, and More
  - 14 Life Sciences Possible Essays Compatibility with Devices
  - 14 Life Sciences Possible Essays Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 14 Life Sciences Possible Essays
  - Highlighting and Note-Taking 14 Life Sciences Possible Essays
  - Interactive Elements 14 Life Sciences Possible Essays
- 8. Staying Engaged with 14 Life Sciences Possible Essays
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 14 Life Sciences Possible Essays
- 9. Balancing eBooks and Physical Books 14 Life Sciences Possible Essays
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 14 Life Sciences Possible Essays
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 14 Life Sciences Possible Essays
  - Setting Reading Goals 14 Life Sciences Possible Essays
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 14 Life Sciences Possible Essays
  - Fact-Checking eBook Content of 14 Life Sciences Possible Essays
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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