

## **LIFE SCIENCES - PAPER 1- QUICK FIXES**

### **DIFFERENCES BETWEEN MITOSIS AND MEIOSIS**

| <b>MEIOSIS:</b>  | <b>MITOSIS:</b>   |
|--|---|
| <ul style="list-style-type: none"><li>• Meiosis involves 2 cell divisions</li></ul>  | <ul style="list-style-type: none"><li>• Mitosis involves 1 cell division</li></ul>  |
| <ul style="list-style-type: none"><li>• Meiosis gives rise to sex cells</li></ul>  | <ul style="list-style-type: none"><li>• Gives rise to somatic cells</li></ul>   |
| <ul style="list-style-type: none"><li>• Cells produced are haploid</li></ul>   | <ul style="list-style-type: none"><li>• Cells produced are diploid</li></ul>  |
| <ul style="list-style-type: none"><li>• Differs according to gender</li></ul>  | <ul style="list-style-type: none"><li>• Has no gender specification</li></ul>   |
| <ul style="list-style-type: none"><li>• 2 phases</li></ul>   | <ul style="list-style-type: none"><li>• One phase</li></ul>   |
| <ul style="list-style-type: none"><li>• 4 daughter cells formed</li><li>• Half the number of chromosomes to the parent cell</li><li>• All cells formed are genetically different to each other and parent cell</li></ul> | <ul style="list-style-type: none"><li>• 2 daughter cells formed</li><li>• Same number of chromosomes as parent cell</li><li>• Genetically identical to each other and parent cell</li></ul> |
| <ul style="list-style-type: none"><li>• Cells responsible for genetic variation in reproduction</li></ul>  | <ul style="list-style-type: none"><li>• Cells responsible for growth and repair</li></ul>   |

### **DIFFERENCES BETWEEN MEIOSIS I AND MEIOSIS II**

| <b>MEIOSIS 1</b>   | <b>MEIOSIS 2</b>   |
|--|--|
| <ul style="list-style-type: none"><li>• Crossing over occurs in prophase 1</li></ul>                                     | <ul style="list-style-type: none"><li>• No crossing over occurs</li></ul>                                    |
| <ul style="list-style-type: none"><li>• Chromosomes arranged at the equator in homologous pairs in metaphase I</li></ul> | <ul style="list-style-type: none"><li>• Chromosomes arranged singly at the equator in metaphase II</li></ul> |
| <ul style="list-style-type: none"><li>• Homologous chromosomes pairs separate</li></ul>                                  | <ul style="list-style-type: none"><li>• Sister chromatids separate</li></ul>                                 |
| <ul style="list-style-type: none"><li>• Whole chromosomes are pulled to opposite poles in anaphase I</li></ul>           | <ul style="list-style-type: none"><li>• Chromatids are pulled to opposite poles in anaphase II</li></ul>     |
| <ul style="list-style-type: none"><li>• 2 diploid daughter cells produced</li></ul>                                      | <ul style="list-style-type: none"><li>• 4 haploid daughter cells produced</li></ul>                          |

### **THE IMPORTANCE OF MEIOSIS**

- Production of haploid gametes
- The halving effect of meiosis overcomes the doubling effect of fertilisation, thus maintaining a constant chromosome number from one generation to the next
- Mechanism to introduce genetic variation through:
  - Crossing over
  - The random arrangement of chromosomes at the equator

### **ABNORMAL MEIOSIS**

Non-disjunction and its consequences

- Non-disjunction of chromosome pair 21 during Anaphase I in humans to form abnormal gametes with an extra copy of chromosome 21
- The fusion between an abnormal gamete (24 chromosomes) and a normal gamete (23 chromosomes) may lead to Down syndrome

# Smatlearner Life Sciences Paper 1

**Yan Bai**



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## **Table of Contents Smatlearner Life Sciences Paper 1**

1. Understanding the eBook Smatlearner Life Sciences Paper 1
  - The Rise of Digital Reading Smatlearner Life Sciences Paper 1
  - Advantages of eBooks Over Traditional Books
2. Identifying Smatlearner Life Sciences Paper 1
  - 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 Smatlearner Life Sciences Paper 1
  - User-Friendly Interface
4. Exploring eBook Recommendations from Smatlearner Life Sciences Paper 1
  - Personalized Recommendations
  - Smatlearner Life Sciences Paper 1 User Reviews and Ratings
  - Smatlearner Life Sciences Paper 1 and Bestseller Lists
5. Accessing Smatlearner Life Sciences Paper 1 Free and Paid eBooks
  - Smatlearner Life Sciences Paper 1 Public Domain eBooks
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- Smatlearner Life Sciences Paper 1 Budget-Friendly Options
- 6. Navigating Smatlearner Life Sciences Paper 1 eBook Formats
  - ePub, PDF, MOBI, and More
  - Smatlearner Life Sciences Paper 1 Compatibility with Devices
  - Smatlearner Life Sciences Paper 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Smatlearner Life Sciences Paper 1
  - Highlighting and Note-Taking Smatlearner Life Sciences Paper 1
  - Interactive Elements Smatlearner Life Sciences Paper 1
- 8. Staying Engaged with Smatlearner Life Sciences Paper 1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Smatlearner Life Sciences Paper 1
- 9. Balancing eBooks and Physical Books Smatlearner Life Sciences Paper 1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Smatlearner Life Sciences Paper 1
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Smatlearner Life Sciences Paper 1
  - Setting Reading Goals Smatlearner Life Sciences Paper 1
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Smatlearner Life Sciences Paper 1
  - Fact-Checking eBook Content of Smatlearner Life Sciences Paper 1
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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