

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

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

<b><u>MITOSIS:</u></b>	<b><u>MEIOSIS:</u></b>
• Mitosis involves 2 cell divisions	• Mitosis involves 1 cell division
• Mitosis gives rise to somatic cells	• Gives rise to somatic cells
• Cells produced are haploid	• Cells produced are diploid
• Differs according to gender	• Has no gender specification
• 2 phases	• One phase
• 4 daughter cells formed	• 2 daughter cells formed
• Half the number of chromosomes to the parent cell	• Same number of chromosomes as parent cell
• All cells formed are genetically different to each other and parent cell	• Genetically identical to each other and parent cell
• Cells responsible for genetic variation in reproduction	• Cells responsible for growth and repair

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

<b><u>MEIOSIS 1</u></b>	<b><u>MEIOSIS 2</u></b>
• Crossing over occurs in prophase I	• No crossing over occurs
• Chromosomes arranged at the equator in homologous pairs in metaphase I	• Chromosomes arranged singly at the equator in metaphase II
• Homologous chromosomes pairs separate	• Sister chromatids separate
• Whole chromosomes are pulled to opposite poles in anaphase I	• Chromatids are pulled to opposite poles in anaphase II
• 2 diploid daughter cells produced	• 4 haploid daughter cells produced

### **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

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**Anthony S. Fauci**



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