

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

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

| <b><u>MEIOSIS:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b><u>MITOSIS:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Meiosis involves 2 cell divisions</li><li>• Meiosis gives rise to sex cells</li><li>• Cells produced are haploid</li><li>• Differs according to gender</li><li>• 2 phases</li><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><li>• Cells responsible for genetic variation in reproduction</li></ul> | <ul style="list-style-type: none"><li>• Mitosis involves 1 cell division</li><li>• Gives rise to somatic cells</li><li>• Cells produced are diploid</li><li>• Has no gender specification</li><li>• One phase</li><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><li>• Cells responsible for growth and repair</li></ul> |

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

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

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