

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✓ /
- chromosomes pair✓/up/homologous pairs /bivalents form
- Crossing over✓/exchange of genetic material occurs between chromatids✓/adjacent chromosome pairs
- During metaphase✓ / of meiosis
- homologous chromosomes✓/chromosome pairs are arranged at the equator✓/of the cell
- in a random✓ way
- with the chromosome attached to the spindle fibre✓
- During anaphase ✓ /
- chromosome pairs separate✓/chromosomes move to opposite poles
- During telophase ✓ /
- 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

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