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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□up/homologous pairs /bivalents form
- Crossing over□exchange of genetic material occurs
- between chromatids□/adjacent chromosome pairs
- During metaphase□ I 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 □ I
- chromosome pairs separate□/chromosomes move to opposite poles
- During telophase □ I
- the chromosomes reach the poles of the cell□

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Arturo Cuomo



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