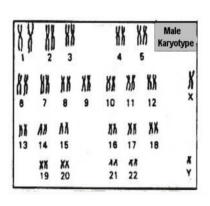
K Ch.1/Doc.2: Diploid & Haploid Cells X

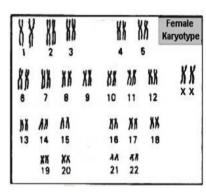


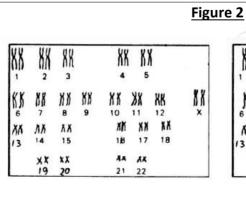
▶ Differentiate between haploidy & diploidy.

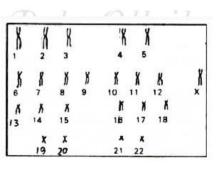
- 1) Specify why human red blood cells aren't suitable for karyotyping.
- 2) Specify the cell division phase through which chromosomes are karyotyped.
- 3) Define "karyotyping".
- 4) State some advantages of Karyotyping.
- 5) Draw a concept map which represents the different types of mutation.
- 6) Draw a table which represents the names & the chromosomal formulas for the required aneuploidy abnormalities.
- 7) Figure 1 represents the karyotypes for two human white blood cells (WBC).
 - a. Identify the kind of cell that each of these karyotypes belongs to.
 - b. <u>Compare</u> both karyotypes.
- 8) Figure 2

Figure 1









<u>Liver cell</u> <u>Gamete</u>

represents two karyotypes for cells belonging to the same human female.

- a. Compare the two karyotypes.
- b. Specify whether a male gamete can have a similar karyotype to that of the given female.
- c. The brain, liver, & WBC cells are examples on "somatic cells". Compare the Karyotypes of the different kinds of somatic cells within the same individual.

9) Pro.3

- a. A somatic cell is a diploid cell while a gamete is haploid Draw out a definition for "diploid cell" & "haploid cell".
- b. Identify the Karyotypes of Doc.b & Doc.c / P.21 of LS textbook.
- c. Differentiate, in a table form, between the karyotypes of a somatic cell & that of a gamete.
- 10) Compare the karyotype of cl with that of c2.









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