

Chapter 5

THE FUNDAMENTAL UNIT OF LIFE

CELL DIVISION:

The process by which new cells are made up is called "Cell divisions.

★ Cell division is 2 types

1. Mitosis
2. Meiosis

MITOSIS:

It occurs in Somatic cells in which Mother cell divides and forms 2 Identical daughter cells.

★ The daughters cells have same no. of chromosomes as the mother cell, it helps in growth repair and formation of new cells in organisms.

MEIOSIS:

It occurs in the germ cells to produce gametes for the Reproduction. It's occurs in 2 phases meiosis I & meiosis II at the end of the meiosis.

Four non-identical cells (Gametes) are found.

- ★ Meiosis is regarded as reduction division because of the chromosome number becomes half.
- ★ Mother cell contains 8 chromosomes while daughter cell contains 4 chromosomes only.
- ★ After Fertilization chromosome number restored with - the union of male and female Gametes.

