

## Mitotic

1. It occurs in the meristematic vegetative cells of the plant.
2. The length, breadth and thickness of the plant increases by this process.
3. By the process two daughter cells are formed from one cell, in which the no. of chromosome remains the same as that of parent cell.
4. In this process chromosome do not meet with each other before cell division.
5. In its prophase stage the chromosome become small and thick forming chromatid.
6. In this process gene exchange or crossing over or synapsis do not takes place.
7. In the metaphase stage the centromere divides into two parts.
8. In mitotic the chromosome appears in double thread.

## Meiosis

1. It occurs in the reproductive cells of the plant.
2. Spores and zygotes are formed by the process.
3. In it four daughter cells are formed from parent cell in which number of chromosome is half from the parent cell.
4. In this process the male and female chromosome meet with each other before cell division.
5. In its 1st prophase stage the chromosome becomes long, thin, uncoiled and thread like.
6. In this cell division these are occurs.
7. In its metaphase stage centromere do not divide.
8. In meiosis the chromosome appears in single thread but in identical pairs.

These are main difference between mitotic and Meiosis.