

## UI/ChI/Doc.3: Meiosis



- 1 Describe the phases of meiosis.
- 2 Indicate the importance of meiosis, fertilization, & life cycle.

- 1) Indicate the kind & location of human cells in which meiosis takes place.
- 2) Draw & list the events concerning each phase of the cell cycle for an animal somatic cell containing 3 pairs of chromosomes & undergoing meiosis.
- 3) **Pro.1** / Name the different steps of meiosis represented in Doc.a/ P.23 of your textbook, & then arrange them according to their chronological order.
- 4) There is a main difference between meiosis & mitosis regarding the arrangement of homologous chromosomes on the spindle fibers. State this difference.
- 5) Draw a graph which represents the variation of DNA quantity/cell throughout all the phases of a cell cycle for a cell undergoing (a) mitosis, & (b) meiosis (Show, on each graph, the phase names and the concerned chromosomal content).
- 6) Construct a comparative table of mitosis & meiosis.
- 7) Based on your knowing of meiotic events, specify how meiosis leads to genetic variation.

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