

1. Why is it necessary for the daughter cells to possess the same number of chromosomes as were present in the parent cell ?
2. State the relationship of mitosis and meiosis with the cancer.
3. Define the following :
 - (a) Endomitosis,
 - (b) Anastral and amphiastral mitosis
 - (c) Kinetochore

4. Name the protein found in the spindle fibres and astral rays.
5. What is the difference between metaphase I and metaphase II of meiosis ?
6. How does cytokinesis of a typical plant cell differ from that of a typical animal cell ?
7. Draw a labelled diagram of metaphase stage of mitotic cell division in an animal cell.
8. Plant X has $2n = 4$ chromosomes. Draw labelled diagram of this plant cell to show the following :
 - (a) Anaphase of mitosis
 - (b) Anaphase of meiosis.
9. What is the average cell cycle span for a mammalian cell ?