

MEIOSIS AND MITOSIS QUESTIONS

1. Distinguish between a gene and a chromosome.
2. Where and when would you expect to find dividing cells in the body of a multicellular organism?
3. Outline briefly the events occurring in each stage of mitosis of an animal cell.
4. What is the difference between mitosis in an animal cell and a plant cell?
5. Compare meiosis and mitosis.
6. Compare spermatogenesis with oogenesis.
7. (a) How many sperm will be produced from 100 primary spermatocytes ?
(b) How many ova will be produced from 100 primary oocytes?
8. (a) Are gametes haploid (monoploid) or diploid?
(b) Are zygotes haploid or diploid?
(c) What is the number of chromosomes in a human gamete compared with a zygote?
9. (a) When are two different genes said to be linked?
(b) What is the effect of crossing over and recombination?