

1. Compare Mitosis and Meiosis – Make a Chart and list similarities and differences. (6)

2. Explain or use a diagram to show what happens as to chromosomes when haploid and diploid cells are formed. (5)

3. How are gametes and zygotes different? (3)

5. Complete this chromosome chart using the provided information. (4)

Organism	Number of Chromosomes at the end of mitosis	Number of Chromosomes in a body cell	Number of chromosomes in a Gamete	Number of Chromosomes in a Zygote	Number of Pairs of Chromosomes
Cabbage	18				
Black Bear					38
Human			23		
Peanut	40				

6. What is a Hermaphrodite? Use an example with your explanation. (3)

7. Explain what happens to male and female gametes during sexual reproduction in plants and animals. (3)

9. Label a sketch to represent fertilization in plants or describe in words.(6)

11. Which type of reproduction sexual or asexual is responsible for an increased amount of genetic variation? Support your answer with examples. (5)
