

1) Compare and contrast meiosis and mitosis cell division.

2) Sexual reproduction causes variations in the offspring. Why?

3) Cystic fibrosis is an inherited disorder. The allele for cystic fibrosis is recessive  $t$ . If both parents are heterozygous for cystic fibrosis calculate the probability of a female child will have cystic fibrosis. Use Punnett square.

4) What are the advantages and disadvantages of embryo screening?

5) Explain how a bacteria can become resistant to antibiotic.