



Reproduction

1 What is sexual reproduction?

- Sexual reproduction involves the combination of genetic information from two different parents (via gametes), resulting in an offspring that is genetically different from either

[2 marks]

2 What are the male and female gametes in animals called?

- Male gametes are sperm cells
- Female gametes are egg cells

[1 mark]

3 What are the male gametes in plants called?

- Pollen

[1 mark]

4 What type of division is involved in sexual reproduction

- Meiosis

[1 mark]

5 What are haploid and diploid cells? Give an example of each

- Haploid cells only contains half the genetic material of a normal cell - 23 chromosomes in humans - e.g. sperm or egg cells
- Diploid cells contain the normal amount - 46 in humans - e.g. fertilised egg cells or a normal body cell like a skin cell

[2 marks]

6 What type of cell division is used in asexual production?

- Mitosis or binary fission

[1 mark]

7 Discuss how the offspring of asexual reproduction differs from those of sexual reproduction

- In sexual reproduction each offspring is genetically different from their parents
 - And from each other
- In asexual reproduction all offspring are clones of the parent

[3 marks]

8 Name 3 types of organisms that can reproduce asexually

- 1) Bacteria
- 2) Fungi
- 3) Plants

[3 marks]

[Total 14 marks]