

Define true breeding

an organism will always produce like offspring

What is a P generation? F1 generation? F2 generation?

P: parents

F1: after p generation (offspring)

F2: After F1 (offspring)

Define trait

a genetically determined characteristic

What is a test cross and how can it be used?

A test where the parent genotype is unknown, using offspring to try to determine genotype

In a test cross the individual in question is crossed with an individual who is..?

a) Homozygous dominant

b) Homozygous recessive

c) heterozygous

B. Homozygous recessive

What is biotechnology?

The use of artificial methods to modify genetic material of living organisms or cells

What is the goal of PCR?

make many copies of a particular sequence of DNA

What ingredients are needed for DNA replication (PCR) to occur?

Original DNA, free nucleotides, enzyme (Taq polymerase), primer(s)

What are primers? (PCR)

indicate where to start copying

What are the steps of PCR?

denaturation, annealing, extension, repeat

In PCR if you start with one DNA molecule how many DNA molecules would you have after one cycle? after five?

2, 32

What is gel electrophoresis?

A lab technique used to analyze DNA samples that separates DNA according to the size of the DNA fragment

in gel electrophoresis why is it important to attach the negative electrode near the wells with the DNA sample?

DNA has a negative charge due to the backbone so it will travel towards positive end

What does nondisjunction mean?

failure of chromosome to separate during meiosis

Genetics And Biotechnology Study Guide Answers

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