ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY FOUNDATION · UNIT 1 · 10 QUESTIONS

You and Your Genes — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

1 **Rabbits with white fur survive better in snow. What is this an example of?**

- A extinction
- B mutation
- C artificial selection
- D natural selection

Understand It with Pulse | Flag a mistake

2 **Horses have different coat colours. What causes the differences?**

- A different species
- B different diets
- C different alleles
- D different habitats

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3 **A brown dog is vaccinated. What does the vaccine contain?**

A a dead or weakened pathogen

B an antibiotic

C white blood cells

D a live dangerous pathogen that causes disease

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4 **A peach tree flowers in spring. What do bees carry between flowers?**

A pollen

B leaves

C water

D seeds

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5 **What is a clone?**

A an organism genetically identical to another

B an organism that looks similar to another organism

C a new species

D a twin

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6 **One parent is heterozygous and the other is homozygous recessive. What is the probability their child is homozygous recessive?**

A 50%

B 75%

C 25%

D 0%

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7 **What is a mutation?**

A a change in the number of chromosomes

B a change in the number of cells

C a change in the DNA base order

D a change in the size of a cell

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8 **How many chromosomes does a human gamete have?**

A 12

B 23

C 92

D 46

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9 **One parent is homozygous dominant and the other is heterozygous. What is the probability their child is homozygous recessive?**

- A 50%
- B 0%
- C 25%
- D 75%

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10 **A honeybee collects nectar. What is nectar?**

- A a sugary liquid
- B a protein-rich food
- C a mineral solution
- D a fatty substance

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ANSWER KEY

1. D
2. C
3. A
4. A
5. A
6. A
7. C
8. B
9. B
10. A

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