ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY HIGHER · 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 **Eggs are produced by hens. What is the female reproductive cell called?**

- A an egg cell
- B a zygote
- C a sperm cell
- D an embryo

Understand It with Pulse | Flag a mistake

2 **Horses are bred for speed. What is this called?**

- A selective breeding
- B mutation of the genes
- C natural selection in the wild
- D evolution over millions of years

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3 **A honeybee is an insect. How many legs does it have?**

- A 4
- B 8
- C 10
- D 6

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

- A 92
- B 46
- C 12
- D 23

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5 **A couple have three children, all girls. What is the chance their next child is a girl?**

- A 1/2
- B 1/4
- C 3/4
- D 1/8

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6 **What is an embryo transplant?**

- A freezing an embryo for later use
- B fusing two embryos into one animal
- C splitting an embryo into two
- D moving genes between embryos

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7 **How are GM crops made?**

A by changing their genes

B by watering them more

C by spraying them with chemicals

D by growing them in greenhouses

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8 **How is sex determined in humans?**

A the mother decides the sex

B XX is male, XY is female

C XY is female, XX is male

D XX is female, XY is male

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9 **Which bases pair together in DNA?**

- A A pairs with G, C pairs with T
- B A pairs with C, T pairs with G
- C A pairs with T, C pairs with G
- D A pairs with A, T pairs with T

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

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

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ANSWER KEY

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

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