ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · UNIT 4 · 25 QUESTIONS

Natural Selection and Genetic Modification — 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 in a population show different fur colours. What is this called?**

A variation

B selection

C mutation

D evolution

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

A natural selection in the wild

B mutation of the genes

C evolution over millions of years

D selective breeding

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3 **Seabirds eat fish. What trophic level are the seabirds?**

A decomposers, breaking down dead matter

B primary consumers, eating producers

C secondary consumers

D producers, making their own food

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4 **A brown dog is bitten by a tick. Ticks can spread disease. How is the disease spread?**

A through water

B through the air

C by touch

D by a vector

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5 **A forest provides a habitat. What does habitat mean?**

A how an organism breeds

B where an organism lives

C when an organism sleeps

D what an organism eats

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6

A honeybee collects nectar. What is nectar?

A a mineral solution

B a sugary liquid

C a fatty substance

D a protein-rich food

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7

What is the order of the Linnaean groups, largest first?

A kingdom to species in order

B a list of all living things

C genus to family in order

D species to kingdom in order

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8 **How can the spread of resistant bacteria be reduced?**

A share antibiotics

B use antibiotics for every illness

C stop washing hands

D only use antibiotics when needed

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9 **Why was Lamarck theory not accepted?**

A Darwin proved him wrong in a trial

B there was no evidence for evolution at all

C giraffes do not have long necks

D changes in life are not inherited

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10 **What is cloning?**

A making a genetically identical copy

B breeding two different species together

C making a new species in the laboratory

D growing a plant from a seed

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11 **Where did the nucleus for Dolly come from?**

A from an embryo cell

B from an egg cell

C from a sperm cell

D from an adult cell

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12 **What is a mutation?**

A a disease

B a change in the environment

C a new species

D a change in the DNA

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13 **What is the correct order of classification, from largest to smallest?**

A kingdom, class, phylum, order, genus, family, species

B species, genus, family, order, class, phylum, kingdom

C phylum, kingdom, class, family, order, genus, species

D kingdom, phylum, class, order, family, genus, species

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14 **Why do identical twins look the same?**

A they eat the same food

B they live in the same house

C they were born together

D they have the same genes

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15 **What are the three domains of life?**

A Archaea, Bacteria and Eukaryota

B Bacteria, Viruses and Fungi

C Animals, Plants and Fungi

D Prokaryotes, Eukaryotes and Viruses

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16 **What is a genetically modified crop?**

A a crop that needs no water

B a crop with a useful new gene

C a crop grown in a greenhouse

D a crop grown without any fertiliser

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17 **What is genetic engineering?**

A breeding animals for many generations

B cloning plants from cuttings

C moving a gene between organisms

D selecting the best seeds to sow

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18 **What is a clone?**

A a new species

B a twin

C an organism genetically identical to another

D an organism that looks similar to another organism

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19 **Why did Woese propose the three domain system?**

A he counted all the species on Earth

B he used genetic evidence

C he discovered the microscope

D he found fossils of the first life

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20 **Which bacterium is resistant to many antibiotics?**

- A Salmonella
- B E. coli
- C MRSA
- D TB bacteria

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21 **How does antibiotic resistance show evolution?**

- A resistant bacteria survive and breed
- B viruses pass resistance to bacteria
- C antibiotics make bacteria stronger directly
- D bacteria learn to resist antibiotics

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22 **Which animal was the first cloned from an adult cell?**

A a pet dog

B a farm cow

C Dolly the sheep

D a laboratory mouse

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23 **How are GM crops made?**

A by changing their genes

B by spraying them with chemicals

C by watering them more

D by growing them in greenhouses

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24 **Who reached the same ideas as Darwin, working separately?**

A Woese

B Mendel

C Wallace

D Lamarck

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25 **What is selective breeding?**

A breeding organisms with wanted traits

B letting organisms breed naturally

C breeding organisms in the wild

D breeding organisms at random without choosing

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ANSWER KEY

1.	A	**10.**	A	**19.**	B
2.	D	**11.**	D	**20.**	C
3.	C	**12.**	D	**21.**	A
4.	D	**13.**	D	**22.**	C
5.	B	**14.**	D	**23.**	A
6.	B	**15.**	A	**24.**	C
7.	A	**16.**	B	**25.**	A
8.	D	**17.**	C		
9.	D	**18.**	C		

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