ALASKA BIOLOGY · UNIT 2 · 10 QUESTIONS

Genetics and Heredity — 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

Ultraviolet light and certain chemicals can increase the rate of mutation They are called

A Alleles

B Mutagens

C Gametes

D Phenotypes

Understand It with Pulse

Flag a mistake

2 **In humans a normal body cell has 46 chromosomes How many autosomes does it have**

- A 23
- B 46
- C 44
- D 22

Understand It with Pulse | Flag a mistake

3 **A male human normally has which pair of sex chromosomes**

- A XX
- B YY
- C XO
- D XY

Understand It with Pulse | Flag a mistake

4 **A deletion mutation removes one or more bases from a DNA sequence It may cause**

- A A frameshift
- B Extra chromosomes
- C Meiosis to stop
- D Cells to double

Understand It with Pulse | Flag a mistake

5 **Which scientist carried out the pea plant crosses that founded modern genetics**

- A Darwin
- B Mendel
- C Pasteur
- D Watson

Understand It with Pulse | Flag a mistake

6 **Genetic engineering can produce human insulin by placing the insulin gene into**

- A Rock
- B Water
- C Bacteria
- D Sunlight

Understand It with Pulse | Flag a mistake

7 **Selective breeding changes a population over time because humans choose which organisms**

- A Die out
- B Are studied
- C Are counted
- D Reproduce

Understand It with Pulse | Flag a mistake

8 **A woman with blood type O and a man with blood type AB have a child Which blood types are possible for the child**

- A A or B only
- B O or AB only
- C A B AB or O
- D AB only

Understand It with Pulse | Flag a mistake

9 **Two heterozygous parents are crossed The offspring genotypes are expected in the ratio**

- A 3 to 1
- B 1 to 2 to 1
- C 9 to 3 to 3 to 1
- D 1 to 1

Understand It with Pulse | Flag a mistake

10 **In humans how many chromosomes are in a normal gamete**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	B	**5.**	B	**9.**	B
2.	C	**6.**	C	**10.**	23
3.	D	**7.**	D		
4.	A	**8.**	A		

© 2026 Brett Robbins. All Rights Reserved.