NOVA SCOTIA ADVANCED BIOLOGY 12 · UNIT C

Genetic Continuity — Practice Test

Nova Scotia Advanced Biology 12 • 10 questions

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 to let Brett know so he can fix it.

1 **In a DNA sample adenine makes up 30 percent of the bases. The percent that is cytosine is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A DNA coding region has 180 bases. The number of amino acids coded is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A DNA coding region has 45 bases. The number of amino acids coded is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **An organism is heterozygous at 8 loci. The number of different gamete types it can produce is**

ANSWER

Understand It with Pulse | Flag a mistake

5 **An organism is heterozygous at 4 loci. The number of different gamete types it can produce is**

ANSWER

Understand It with Pulse | Flag a mistake

6 **In a population 9 percent show a recessive trait. The percent of recessive alleles is**

ANSWER

Understand It with Pulse | Flag a mistake

7 **In a population 36 percent show a recessive trait. The percent of recessive alleles is**

ANSWER

Understand It with Pulse | Flag a mistake

8 **Epistasis occurs when one gene**

A masks the expression of another gene

B doubles its own expression

C changes chromosome number

D creates a new allele

Understand It with Pulse | Flag a mistake

9 **Polygenic inheritance produces traits that show**

A only two forms

B continuous variation

C sex linkage only

D no variation

Understand It with Pulse | Flag a mistake

10 **DNA fingerprinting compares patterns of**

A identical genes only

B protein shapes

C variable DNA regions between individuals

D chromosome counts

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	20	**5.**	16	**9.**	B
2.	60	**6.**	30	**10.**	C
3.	15	**7.**	60		
4.	256	**8.**	A		

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