NOVA SCOTIA BIOLOGY 12 · UNIT C

Genetic Continuity — Practice Test

Nova Scotia 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 35 percent of the bases. The percent that is guanine is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A messenger RNA molecule has 150 bases. The number of codons it contains is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A messenger RNA molecule has 30 bases. The number of codons it contains is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **An organism is heterozygous for 1 gene pairs. The number of different gamete types it can produce is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An organism is heterozygous for 5 gene pairs. 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 expected to be heterozygous carriers is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **In a population 36 percent show a recessive trait. The percent expected to be heterozygous carriers is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Sex linked traits in humans are most often carried on the**

A X chromosome

B Y chromosome only

C autosome only

D mitochondrion only

Understand It with Pulse | Flag a mistake

9 **A test cross is used to find the**

A phenotype only

B genotype of an organism showing a dominant trait

C chromosome number

D mutation rate

Understand It with Pulse | Flag a mistake

10 **Incomplete dominance in snapdragons gives a pink flower from**

A red and red parents

B white and white parents

C a red parent and a white parent

D pink and pink parents only

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	15	**5.**	32	**9.**	B
2.	50	**6.**	42	**10.**	C
3.	10	**7.**	48		
4.	2	**8.**	A		

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