

EXAM-STYLE QUESTIONS

Part A: Multiple-Choice Questions

1. A large population of a species of organism is being exposed to a chemical that is toxic.
 - (A) The frequency of the dominant allele will increase.
 - (B) The frequency of the recessive allele will increase.
 - (C) The frequency of the heterozygous genotype will increase.
 - (D) The frequency of the heterozygous genotype will decrease.
2. A population of a species of organism is being exposed to a chemical that is toxic. The frequency of the dominant allele is 0.6. The frequency of the recessive allele is 0.4. The frequency of the heterozygous genotype is 0.48. The frequency of the homozygous dominant genotype is 0.36. The frequency of the homozygous recessive genotype is 0.16.
 - (A) The frequency of the dominant allele will increase.
 - (B) The frequency of the recessive allele will increase.
 - (C) The frequency of the heterozygous genotype will increase.
 - (D) The frequency of the heterozygous genotype will decrease.
3. A population of a species of organism is being exposed to a chemical that is toxic. The frequency of the dominant allele is 0.6. The frequency of the recessive allele is 0.4. The frequency of the heterozygous genotype is 0.48. The frequency of the homozygous dominant genotype is 0.36. The frequency of the homozygous recessive genotype is 0.16.
 - (A) The frequency of the dominant allele will increase.
 - (B) The frequency of the recessive allele will increase.
 - (C) The frequency of the heterozygous genotype will increase.
 - (D) The frequency of the heterozygous genotype will decrease.

Part B: Short Answer

1. Use the information provided below to answer the questions 1 and 2.

Consider a population of a species of organism that is being exposed to a chemical that is toxic. The frequency of the dominant allele is 0.6. The frequency of the recessive allele is 0.4. The frequency of the heterozygous genotype is 0.48. The frequency of the homozygous dominant genotype is 0.36. The frequency of the homozygous recessive genotype is 0.16.

2. Consider a population of a species of organism that is being exposed to a chemical that is toxic. The frequency of the dominant allele is 0.6. The frequency of the recessive allele is 0.4. The frequency of the heterozygous genotype is 0.48. The frequency of the homozygous dominant genotype is 0.36. The frequency of the homozygous recessive genotype is 0.16.

Genotype	Frequency
AA	0.36
Aa	0.48
aA	0.48
aa	0.16



1. When a population is exposed to a chemical that is toxic, the frequency of the dominant allele will increase.
 - (A) True
 - (B) False
 - (C) Indeterminate
 - (D) Indeterminate
2. When a population is exposed to a chemical that is toxic, the frequency of the recessive allele will increase.
 - (A) True
 - (B) False
 - (C) Indeterminate
 - (D) Indeterminate

Hsa Practice Biology Notes

M Woodhall



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