

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
 (B) The frequency of the recessive allele
 (C) The frequency of the heterozygous genotype
 (D) The frequency of the homozygous dominant genotype
2. A population of a species of organism is being exposed to a chemical that is toxic. The population is in Hardy-Weinberg equilibrium. The frequency of the dominant allele is 0.7. The frequency of the recessive allele is 0.3. The frequency of the heterozygous genotype is 0.42.
 (A) The frequency of the dominant allele is 0.7
 (B) The frequency of the recessive allele is 0.3
 (C) The frequency of the heterozygous genotype is 0.42
 (D) The frequency of the homozygous dominant genotype is 0.49
3. A population of a species of organism is being exposed to a chemical that is toxic. The population is in Hardy-Weinberg equilibrium. The frequency of the dominant allele is 0.7. The frequency of the recessive allele is 0.3. The frequency of the heterozygous genotype is 0.42.
 (A) The frequency of the dominant allele is 0.7
 (B) The frequency of the recessive allele is 0.3
 (C) The frequency of the heterozygous genotype is 0.42
 (D) The frequency of the homozygous dominant genotype is 0.49

Part B: Short Answer

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

Question 1: A population of a species of organism is being exposed to a chemical that is toxic. The population is in Hardy-Weinberg equilibrium. The frequency of the dominant allele is 0.7. The frequency of the recessive allele is 0.3. The frequency of the heterozygous genotype is 0.42.

Question 2: A population of a species of organism is being exposed to a chemical that is toxic. The population is in Hardy-Weinberg equilibrium. The frequency of the dominant allele is 0.7. The frequency of the recessive allele is 0.3. The frequency of the heterozygous genotype is 0.42.

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

Genotype	Frequency
AA	0.49
Aa	0.42
aA	0.42
aa	0.09

Question 1: A population of a species of organism is being exposed to a chemical that is toxic. The population is in Hardy-Weinberg equilibrium. The frequency of the dominant allele is 0.7. The frequency of the recessive allele is 0.3. The frequency of the heterozygous genotype is 0.42.



1. What is the frequency of the dominant allele?
 (A) 0.7
 (B) 0.3
 (C) 0.42
 (D) 0.49
2. What is the frequency of the recessive allele?
 (A) 0.7
 (B) 0.3
 (C) 0.42
 (D) 0.49

3. What is the frequency of the heterozygous genotype?
 (A) 0.42
 (B) 0.49

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