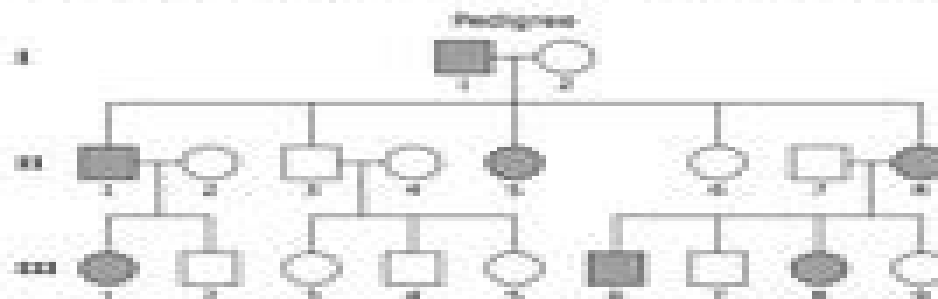


Practice

Exposure to the building material asbestos has been linked to certain types of cancers. Asbestos causes mutations in the p53 gene, which controls tumor suppression.

1. Which statement best explains why people with cancer due to asbestos exposure do not pass the mutation on to their offspring?
 - a. The mutation occurred in gametic cells.
 - b. The mutation occurred in somatic cells.
 - c. The mutation is recessive.
 - d. The mutation is sex-linked.

The inheritance pattern for an autosomal dominant trait is shown in the pedigree. Shaded symbols represent individuals that express the **dominant trait**. Use the pedigree to answer question #2.



2. Select the correct interpretation of genotypes from the pedigree above.
 - a. I-1: aa I-2: Aa
 - b. I-1: AA I-2: Aa
 - c. I-1: Aa I-2: aa
 - d. I-1: aa I-2: AA
3. Tomato plants usually have hairy stems. Hairless stems are present in tomato plants that are heterozygous recessive for the trait. If this characteristic is determined by a single gene, what is the expected outcome of crossing two tomato plants that are heterozygous for hairy stems?
 - a. 75% hairy stems, 25% hairless stems
 - b. 100% hairy stems
 - c. 100% hairless stems
 - d. 50% hairy stems, 50% hairless stems
4. Hemophilia is a sex-linked, recessive trait. Which of the following describes the probability of hemophilia in the offspring of a man who does not have hemophilia and a woman who is a heterozygous carrier?
 - a. There is a 100% chance that their sons will have hemophilia.
 - b. There is a 50% chance that their daughters will have hemophilia.
 - c. There is a 25% chance that their sons will have hemophilia.
 - d. There is a 50% chance that their daughters will have hemophilia.

Inheritance And Protein Synthesis Eoc Study Guide

Karin Nielsen-Saines



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web above in all three auto positions the pumps shall be stopped by hand only as it will be common practice to run the diesel and electrical fire pump at least once a week for a couple of minutes and to prevent any damage to the pumps a return pipe to the reservoir sized for approximately 35 of the pump s duty point flow is to be

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determine fire pump power source coordinate with the fire protection engineer to determine pump requirements the normal source must be in accordance with one of the following nec article 695.3 determine reliability alternate

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