

Genetics Practice Multiple Choice Questions

The first three questions are based on the pedigree to the right:



- The characteristic indicated by the blackened figures is probably:
 - Dominant.
 - Recessive.
 - Non-dominant.
 - Sex-linked recessive.
- What are the genotypes of the parents?
 - Both are homozygous dominant.
 - Both are heterozygous dominant.
 - Both are homozygous recessive.
 - The male is homozygous dominant; the female is homozygous recessive.
- If one parent has type A blood and the other parent has type B blood, what blood type will the offspring denoted by the white square and circle have?
 - Type A.
 - Type B.
 - Type AB.
 - Type O.
- Mitotic cell division results in two cells that have:
 - n chromosomes and are genetically identical.
 - n chromosomes and are genetically different.
 - $2n$ chromosomes and are genetically identical.
 - $2n$ chromosomes and are genetically different.
- In tobacco, if the diploid number of chromosomes is 48, how many chromosomes will be found in a pollen grain?
 - 96.
 - 48.
 - 24.
 - 12.
- The four cells produced in meiosis will have a:
 - $2n$ number of chromosomes and will differ genetically from each other.
 - $2n$ number of chromosomes and will be genetically identical to each other.
 - n number of chromosomes and will be genetically identical to each other.
 - n number of chromosomes and will differ genetically from each other.
- In the F_2 generation of a monohybrid cross, the phenotypic ratio would be:
 - 3:1
 - 1:2:1
 - 2:1:1
 - 1:1:2
- Hemophilia is a sex-linked recessive trait in humans. If a father and a son are both hemophiliacs, but the mother is normal, her genotype must be:
 - X^hX^h
 - X^HX^h
 - X^HX^H
 - X^hY

Genetics Practice Multiple Choice Questions

Arshad Iqbal



Genetics Practice Multiple Choice Questions:

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