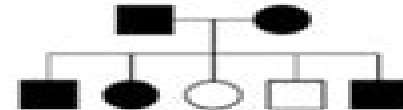


## Genetics Practice Multiple Choice Questions

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:
  - $X^hX^h$
  - $X^{Hh}$
  - $X^{Hh}X^H$
  - $X^{Hh}Y$

# Genetics Multiple Choice Questions With Answers

**Arshad Iqbal**



## **Genetics Multiple Choice Questions With Answers:**

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