

4. If Individual III-v marries a normal man, what is the probability that their son would have both diseases?
- A. 0
  - B.  $1/16$
  - C.  $1/8$
  - D.  $1/4$
5. What is the probability that offspring produced by a mating between Individuals III-j and III-m would be afflicted by either Disease 1 or 2?
- A.  $1/4$
  - B.  $1/2$
  - C.  $3/4$
  - D. 1
6. In a certain randomly-mating population, the frequency of the allele causing Disease 1 is 0.1. What would be the frequency of affected individuals in this population?
- A. 0.01
  - B. 0.1
  - C. 0.19
  - D. 0.9