

## AP Biology Genetics Unit Test Review

### Basic Genetics Problems

1. What combination of alleles will show up in the gametes of an individual with the genotype  $RrJj$ ?
  - a.  $RrJj$
  - b.  $RRJj$
  - c.  $RrJJ$
2. Genes  $S$  and  $T$  are not linked. If there is a 50% probability that allele  $S$  is in a gamete and there is a 50% probability that allele  $T$  is in a gamete, what is the probability that both are in the same gamete?
3. The trait for tall pea plants is ( $T$ ) and the trait for short pea plants is ( $t$ ). The trait for smooth peas is ( $S$ ) and the trait for wrinkled is ( $s$ ). Two plants are crossed yielding an  $F_1$  generation with 612 tall plants with smooth peas and 188 short plants with wrinkled peas. Which of the following is the most likely genotype of the parent generation?
  - (A)  $ttss \times ttss$
  - (B)  $TTss \times TTss$
  - (C)  $TtSs \times TtSs$
  - (D)  $TTSS \times ttss$
  - (E)  $TtSS \times Ttss$
4. A male and female have 3 offspring all of which are female. The couple is now pregnant again. What is the likelihood that the next child will be a female?
  - (A)  $1/16$
  - (B)  $1/4$
  - (C)  $1/3$
  - (D)  $1/2$
  - (E)  $3/4$
5. What is the likelihood that a couple will have 4 offspring all of which are female?
  - (A)  $1/16$
  - (B)  $1/4$
  - (C)  $1/3$
  - (D)  $1/2$
  - (E)  $3/4$
6. What is the probability that each of the following pairs of parents will produce the indicated offspring (assume independent assortment of all gene pairs)?
  - a.  $AABBCC \times aabbcc \rightarrow AaBbCc$
  - b.  $AABbCc \times AaBbCc \rightarrow AAbbCC$
  - c.  $AaBbCc \times AaBbCc \rightarrow AaBbCc$
7. A child is born with the blood type B. The mother of the child is blood type O. Which of the following statements is most correct?
  - (A) The father must be type B
  - (B) The father could be type AB
  - (C) The father passed along a recessive allele
  - (D) The mother could have passed along a type B allele
  - (E) The mother could have passed along a dominant allele
8. If traits X, Y, and Z are consistently inherited together, which of the following best explains why this is the case?
  - (A) These 3 traits are all dominant.
  - (B) The parents both carry the dominant form of each trait.
  - (C) These 3 traits are located on different chromosomes
  - (D) These 3 traits are located close to each other on the same chromosome.
  - (E) These 3 traits are located far from each other on the same chromosome.

# Ap Biology Genetics Unit Test Review

**Christian Drosten**



**Ap Biology Genetics Unit Test Review:**

## Unveiling the Magic of Words: A Review of "**Ap Biology Genetics Unit Test Review**"

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