

Name: _____

Grade and Section: _____

Science 10 Quiz

Read and analyze each question. Encode the letter of the correct answer.

1. How many genotypes are possible for a person with blood type A?
 - a. 2 possible genotypes, namely $I^A I^A$ and of $I^A i$.
 - b. 1 possible genotype, which is $I^A I^A$.
 - c. 3 possible genotypes, namely $I^A i$, $I^A I^A$, and $I^A I^B$
 - d. None of the above.
2. What is the phenotype of a person with genotype $I^A i$?
 - a. Blood type B
 - b. Blood type A
 - c. Blood type O
 - d. Blood type AB
3. What is the phenotype of $I^A I^B$?
 - a. Blood type A
 - b. Blood type B
 - c. Blood type AB
 - d. Blood type O.
4. If i is combined with any of the other alleles, will it be physically expressed?
 - a. Yes
 - b. No
 - c. Yes and No
 - d. None of the above
5. Can a couple with both husband and wife having blood type A, produce a child with blood type O?
 - a. Yes, provided that they have heterozygous genotype, $I^A i$.
 - b. No, they will not produce a child with blood type O since they are both blood type A.
 - c. No, they will not have a child.
 - d. None of the above.