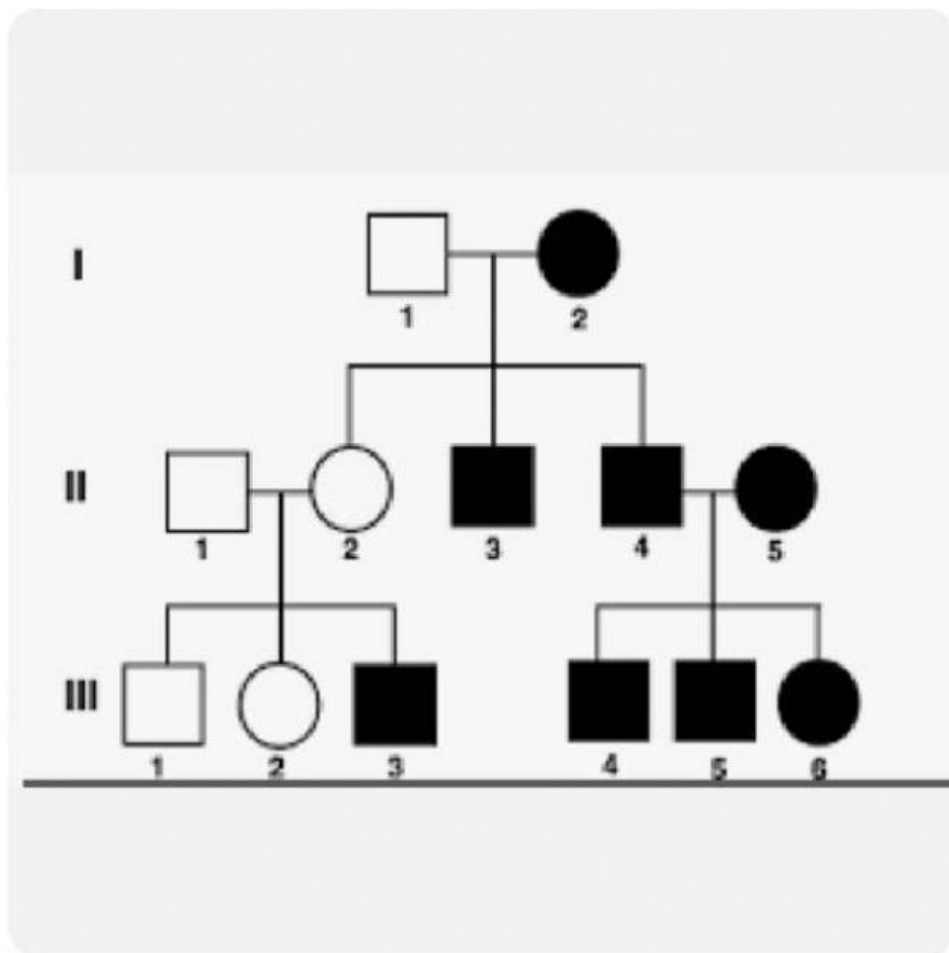This is a pedigree that follows the **blue eyes** which is a **recessive trait**. *B=brown eyes, b=blue eyes*

1. a)   How many males are shown in this pedigree?   _____

    b)   How many males have blue eyes?   _____

2. a)   How many females are shown in this pedigree?   _____

    b)   How many females have blue eyes?   _____

3. How many marriages are shown in this pedigree?   _____

4. What is the genotype of the father in the first generation? _____

5. a) How many children do the parents in generation 1 have?

    b) If the parents in generation 1 have another child, what is the percent chance that the child will have blue eyes? _____

6. a) What is the genotype of individual **II-1**? _____

    b) What term is used to describe this genotype? _____

7. a) How many individuals in generation 3 are **carriers?** _____

    b) What is the phenotype of a carrier? _____