- 1. Please write down the cell types present after conjugation between cells with different F factors. (60 points)
 - a. $F^+ x F^-$
 - b. Hfr x F
 - c. F' x F
- 2. The following pedigree represents the inheritance of a rare disorder in an extended family. What is the most likely mode of inheritance for this disease? Please state your arguments explicitly. (40 points)

