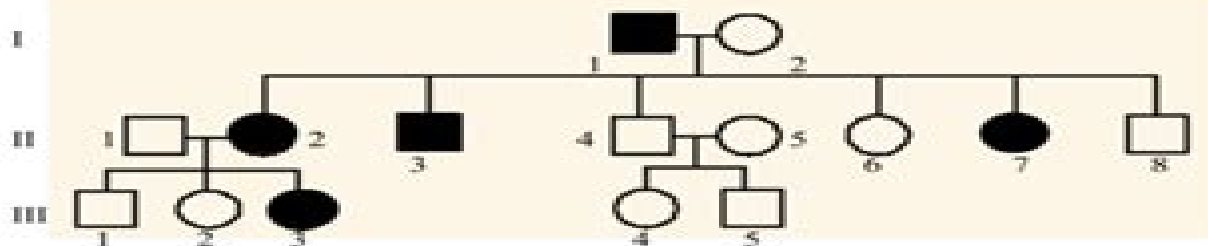


Pedigree Worksheet

Name _____



● ■ = Huntington's Disease

- Which members of the family above are afflicted with Huntington's Disease? _____
- There are no carriers for Huntington's Disease- you either have it or you don't. With this in mind, is Huntington's disease caused by a dominant or recessive trait? _____
- How many children did individuals I-1 and I-2 have? _____
- How many girls did II-1 and II-2 have? _____ How many have Huntington's Disease? _____
- How are individuals III-2 and II-4 related? _____ I-2 and III-5? _____

6. The pedigree to the right shows a family's pedigree for Hitchhiker's Thumb. Is this trait dominant or recessive? _____

7. How do you know? _____

8. How are individuals III-1 and III-2 related? _____

9. How would you name the 2 individuals that have hitchhiker's thumb? _____

10. Name the 2 individuals that were carriers of hitchhiker's thumb. _____

11. Is it possible for individual IV-2 to be a carrier? _____ Why? _____

12. The pedigree to the right shows a family's pedigree for colorblindness. Which sex can be carriers of colorblindness and not have it? _____

13. With this in mind, what kind of trait is colorblindness (use your notes)? _____

14. Why does individual IV-7 have colorblindness? _____

15. Why do all the daughters in generation II carry the colorblind gene? _____

16. Name 2 IV generation colorblind males. _____



**half-shaded = carrier of disease

Human Pedigree Genetics Worksheet Answer Key

George P. Mudge



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Pedigree Analysis in Human Genetics Elizabeth Alison Thompson,1986 *Modern Analysis of Human Pedigrees*
Laurence Hasbrouck Snyder,1934 **Symbols for Human Pedigree Charts** Lee Raymond Dice,1946 **The Use of
Standard Nomenclature in Human Pedigrees** Heidi Ann Schoenhard,2004 **Pedigree Studies of the Inheritance of
Certain Human Characteristics** Paul Daniel Hickson,1953 **Some Extensions of the Gene Frequency Analysis of
Human Pedigrees** Charles William Cotterman,1937 The Mendelian Collection of Human Pedigrees George P.
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family history to find the inheritance of a trait is the fundamental concept in human genetics The collected information on the
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large collection of known individuals in the family Hence Pedigree tool was developed which automatically creates the
Ancestor tree and Descendant tree This tool also has an option to find the unrelated individuals Inserting individual details
into the database can also be done using this tool Thus this user friendly Java based application can help researchers and
genetic counselors to investigate the genetic cause of the hereditary diseases Discovering the genes that are involved in
susceptibility to the diseases will be useful for earlier diagnosis and treatment to slow or prevent the disease Abstract

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Human Pedigree Genetics Worksheet Answer Key**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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