Pedigrees Practice - AP Biology

for each pedigree, write the genotypes of the individuals

The disorder shown on the pedigree is Maple Syrup Urine Disease (MSUD) which is a metabolic disorder that affects the body's ability to process certain proteins. It was named after a distinctive odor of a baby's urine.

- 1. What is the inheritance pattern of this gene?
 - a) autosomal dominant
- b) autosomal recessive
- c) X-linked dominant
- d) X-linked recessive
- Provide at least one piece of evidence for your claim. Two parents that do not have the disease must be carriers (Aa) to have a child with the disease.

This pedigree shows the inheritance Leber congenital amaurosis (LCA) which is a type of hereditary blindness. Individuals with this disease lose their vision during childhood.

- 3. What is the inheritance pattern shown? autosomal recessive
- 4. Highlight one individual whose genotype is unknown. What additional information would you need to determine his/her genotype? If the unknowns had children, it could reveal if they were carriers.



Marfan syndrome affects the connective tissue and causes individuals to have long, thin, arms, legs, fingers and toes.

- 5. What is the inheritance pattern shown? autosomal dominant
- Provide at least one piece of evidence for your claim. The first two parents both had Marfan syndrome, but had children who did not have the disorder.
- 7. Consider the children labeled "1,2,3." Would you expect any of these individuals to have children of their own with Marfan Syndrome. Anyone without the syndrome must be recessive, because the disorder is dominant, this branch of the family tree will all be "normal." This is a good time to discuss where the first individual got the disease, likely it was a spontaneous mutation in the gene.



Charcot-Marie-Tooth disease (CMT)causes, motor and sensory neuropathies of the peripheral nervous system characterized by progressive loss of muscle tissue and touch sensation across various parts of the body.

- 8. What is the inheritance pattern shown? X-linked recessive
- Provide at least one piece of evidence for your claim. The disease mainly affects boys, though a girl can have it if her father had it and her mother was a carrier.
- 20. The dashed line represents a possible union. Discuss the probability that such a union would result in a child with CMT. Since the child will inherit the mutant affeld from the father, a female has a 50% chance of having the disorder. A male child also has a 50% chance of inheriting the affeld from his heteropygote mother.



Cystic fibrosis is a disease that affects the ability of cells to move sodium across the cell membrane. This causes mucus to build up in the lungs resulting in respiratory problems.

- 11. What is the inheritance pattern shown? autosomal recessive
- Provide at least one piece of evidence for your claim. Two parents that do not have the disease must be carriers (Aa) to have a child with the disease.



Genetics And Pedigree Problems Answer Key

Mr. Rohit Manglik

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Solutions Manual for An Introduction to Genetic Analysis David Scott, 2012 Since its inception Introduction to Genetic Analysis IGA has been known for its prominent authorship including leading scientists in their field who are great educators This market best seller exposes students to the landmark experiments in genetics teaching students how to analyze experimental data and how to draw their own conclusions based on scientific thinking while teaching students how to think like geneticists Visit the preview site at www whfreeman com IGA10epreview **Genetics? No Problem!** Kevin O'Dell, 2017-03-20 Shortlisted for the HE Bioscience Teacher of the Year Award 2019 Kevin O Dell Author of Genetics No. Problem The analysis and interpretation of data is fundamental to the subject of genetics and forms a compulsory part of the undergraduate genetics curriculum Indeed the key skills that a genetics student requires are an ability to design and understand experimental strategies and to use problem solving skills to interpret experimental results and data Genetics No Problem provides students with a graded set of problems that aim to enthuse challenge and entertain the reader The book is divided into three sections introductory intermediate and advanced each with 10 problems For first level students there will be short genetics problems embedded in a wide range of scenarios such as murder mysteries As the book progresses the stories will get longer and the science will get progressively more complex to challenge final year students and enable the reader to identify genetic disease in obscure organisms as well as designing and testing treatments and cures Genetics No Problem Takes a unique innovative approach that provides students with a set of graded problems designed to develop both their skills and their ability to tackle problems with confidence Includes problems embedded in a narrative written in an interesting informative and entertaining style by an Author with a proven track record in teaching research and communication Is well illustrated in full colour throughout The book will prove invaluable to all students of genetics across a range of disciplines needing to get to grips with the analysis and interpretation of data that is fundamental to the subject

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new text the authors take a synoptic approach and summarize the causes and basis of hearing impairments the impact on the Mosby's Oncology Nursing Advisor - E-Book Susan Maloney, Margie individual and the therapies available Hickey, Jeannine M. Brant, 2023-09-05 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Oncology Find oncology information fast with this concise all in one clinical reference Mosby's Oncology Nursing Advisor 3rd Edition uses a streamlined format to provide quick access to the most essential information on oncology nursing care Evidence based quidelines include topics such as the major cancers principles of cancer management and principles of symptom management as well as oncologic emergencies palliative care and nursing practice considerations. This edition includes new information on cancer treatments genetic risk chemotherapy guidelines and more Written by a team of oncology nursing experts led by Susan Maloney Newton this book is ideal for use in any oncology nursing setting Detailed descriptions of more than 50 major cancer types provide essential information on incidence etiology and risk factors signs and symptoms diagnostic workup histology staging treatment prognosis and prevention Coverage of cancer management principles outlines a wide range of treatment and pharmacologic modalities including surgery chemotherapy radiation therapy hormonal therapy immunotherapy and complementary and alternative therapies Symptom management guidelines offer in depth coverage of pathophysiology signs and symptoms assessment tools lab and diagnostic tests differential diagnoses interventions patient education follow up care and resources for more than 30 common symptoms associated with cancer and cancer treatments Essential information on oncologic emergencies and emergent issues prepares readers to respond quickly to structural urologic metabolic and hematologic emergencies Section on palliative care and end of life issues offers helpful guidelines for dealing with topics related to survivorship palliative care the final hours of the cancer patient and loss grief and bereavement NEW Updated content reflects the latest evidence based information including cancer biology cancer treatment modalities the latest chemotherapy quidelines and a stronger emphasis on oral agents NEW New content addresses the concept of previvorship the concept of coping with a documented genetically linked high cancer risk NEW Enhanced content on health disparities diversity and inclusion and transgender considerations equips oncology nurses with essential information to promote health equity NEW Key recommendations of the 2020 2030 Future of Nursing Report are integrated into the Nursing Practice Considerations section NEW Content on the impact of the COVID pandemic includes delayed diagnosis and treatment and the impact of COVID sequelae on the health of patients with cancer NEW Added content on palliative care is included in an expanded Pain chapter NEW Full color design and additional illustrations make it easier to use the book and to understand concepts NEW Pulmonary Symptoms chapter now includes cough dyspnea and pleural effusion content Principles of Plant Genetics and Breeding Mr. Rohit Manglik, 2024-06-11 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well

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