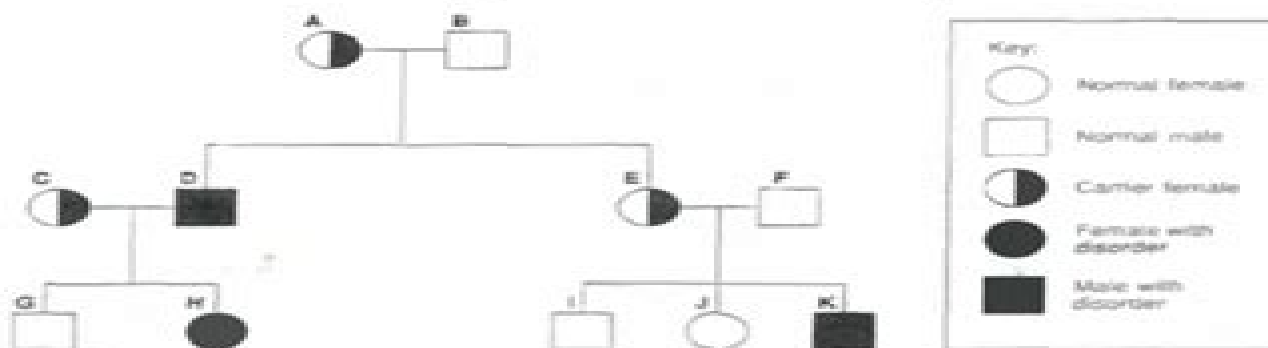


## CHAPTER 11

Human Heredity  
Section 11-3SKILL ACTIVITY  
Interpreting diagrams

## Applied Genetics

A. Duchenne muscular dystrophy is a deadly disorder in which the muscles grow progressively weaker. The disease is caused by a recessive gene on the X chromosome. The pedigree chart below illustrates the inheritance of this gene. Use the chart to answer the questions that follow.



1. Is Duchenne muscular dystrophy more likely to occur in males or in females? Explain your answer.

Males because they only have 1 X chromosome that needs the recessive allele

2. Individual H is a female with this disorder. Explain how she inherited this disease.

Her father gave her his X chromosome with the recessive allele. Her mom was a carrier.

3. Individual K has this disorder, yet his father did not. Explain how this is genetically possible.

Individual K got his X chromosome from his mom, not his dad.

4. Individual G does not have the disease, yet his mother was a carrier and his father had the disease. Explain how this is possible.

Individual G got the Y chromosome from his dad and the X without the disease from his mom.

# Applied Genetics Section 11 Review Answers

**Dennis Coon**



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*Biology* Oram,1998 Biology text book that focus on the nature of biology energy and the cell The continuation of life Evolutionary relationships life functions of organisms controlling living systems and Interactions in the environment

Gene Patents and Collaborative Licensing Models Geertrui van Overwalle,2009-06-11 The cost of patent licenses needed to design a new genetic test or treatment may ultimately prevent research projects getting started as individual components are protected by different patent owners This book examines legal measures which might be used to solve the problem of fragmentation of patents in genetics      **Mechanisms of Life History Evolution** Thomas Flatt,Andreas Heyland,2011-05-12

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**Complete Preparation for the AHPAT, 1999** Williams & Wilkins Review,1998-04 Here is the most accurate and complete resource designed for students interested in applying for admission to health fields such as medical technology and medical therapy Reviews cover science knowledge verbal and quantitative ability and reading comprehension Students will

value the topic outlines for the AHPAT exam the in depth allied health glossary and the full length sample test complete with solutions

**Resources for Teaching Middle School Science** Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

**PG Textbook of Pediatrics** Piyush Gupta, PSN Menon, Siddarth Ramji, Rakesh Lodha, 2015-08-31 Postgraduate Textbook of Pediatrics is a comprehensive guide to paediatrics The textbook is comprised of three volumes split into ten parts with over 600 chapters and contributions from over 50 section editors and 725 authors covering all paediatric disorders descriptions of diseases and their management Includes nearly 1500 images and illustrations in full colour incorporating information on modern imaging techniques for neurological disorders in children This is an ideal resource for

postgraduate students to gain a firm grounding in and retain and improve their knowledge of all areas of paediatric medicine

Conceptual Ecology and Invasion Biology: Reciprocal Approaches to Nature Marc W. Cadotte, Sean M. McMahon, Tadashi Fukami, 2006-07-19 The conservation threat represented by invasive species is well known but the scientific opportunities are underappreciated. Invasion studies have historically been largely directed at the important job of collecting case studies. Invasion biology has matured to the point of being able to incorporate itself into the heart of ecology and should be viewed as extensions or critical experiments of ecological theory. In this edited volume, global experts in ecology and evolutionary biology explore how theories in ecology elucidate the invasion processes while also examining how specific invasions inform ecological theory. This reciprocal benefit is highlighted in a number of scales of organization: population, community, and biogeographic, while employing example invaders in all major groups of organisms and from a number of regions around the globe. The chapters in this volume utilize many of the cutting edge observational, experimental, analytical, and computational methods used in modern ecology. Through merging conceptual ecology and invasion biology, we can obtain a better understanding of the invasion process while also developing a better understanding of how ecological systems function.

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