

Genetics Packet ~ Punnett Square Practice **KEY**

Basics

1. The following pairs of letters represent alleles of different genotypes. Indicate which pairs are Heterozygous and which are Homozygous. Also indicate whether the homozygous pairs are Dominant or Recessive (*note heterozygous pairs don't need either dominant nor recessive labels.)

A. BB = Homozygous dominant

D. gg = Homozygous recessive

B. Bb = Heterozygous

E. aa = Homozygous recessive

C. Gg = Heterozygous

F. Ee = Heterozygous

2. In humans, brown eye color (B), is dominant over blue eye color (b). What are the phenotypes of the following genotypes?

A. Bb =

Brown eyes

B. BB =

Brown eyes

C. bb

blue eyes

Monohybrid Crosses with Complete Dominance

3. A heterozygous smooth pea pod plant is crossed with a wrinkled pea pod plant. There are two alleles for pea pod, smooth and wrinkled. Use R for seed texture. Predict the offspring from this cross.

a. What is the genotype of the parents? Rr x rr

b. Set up a Punnett square with possible gametes.

	R	r
r	Rr	rr
r	Rr	rr

c. Fill in the Punnett square for the resultant offspring.

d. What is the predicted genotypic ratio for the offspring? 1Rr : 1rr

e. What is the predicted phenotypic ratio for the offspring? 1 smooth : 1 wrinkled

f. If this cross produced 50 seeds how many would you predict to have a wrinkled pod? 25

4. In humans, achondroplasia "dwarfism" (D) is dominant over normal (d).

A homozygous dominant (DD) person dies before the age of one.

A heterozygous (Dd) person is dwarfed. A homozygous recessive individual is normal.

A heterozygous dwarf man marries a heterozygous dwarf woman...

	D	d
D	DD	Dd
d	Dd	dd

a. What is the probability of having a normal child? 1/3... 33.3%

b. What is the probability that the next child will also be normal? 1/3... 33.3%

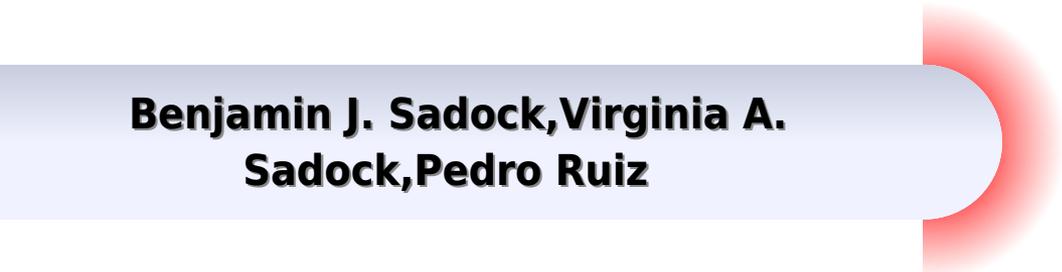
each child is a new shot at the same punnett square!

c. What is the probability of having a child that is a dwarf? 2/3... 66.6%

d. What is the probability of having a child that dies at one from this disorder? 25%

Genetics Common Exam Review Packet Answers

**Benjamin J. Sadock, Virginia A.
Sadock, Pedro Ruiz**



Genetics Common Exam Review Packet Answers:

Kaplan and Sadock's Study Guide and Self-examination Review in Psychiatry Benjamin J. Sadock, Virginia A. Sadock, Ze'ev Levin, 2007 This study guide is an excellent aid in preparing for boards and other psychiatry exams and in reinforcing a student's knowledge. It offers chapter overviews of Synopsis Tenth Edition and more than 1 600 multiple choice questions with discussions of correct and incorrect answers

Kaplan & Sadock's Study Guide and Self-Examination Review in Psychiatry Benjamin J. Sadock, Virginia A. Sadock, Pedro Ruiz, 2012-03-28 Kaplan Sadock's Study Guide and Self Examination Review in Psychiatry is a comprehensive review of the specialty and perfect for stand alone review or as preparation for the PRITE in service ABPN Part I and recertification examinations. The book contains more than 1 600 multiple choice questions and answers with explanatory discussions of correct and incorrect responses. Chapters parallel the essential corresponding chapters in Kaplan Sadock's Synopsis of Psychiatry a staple of psychiatry education around the globe. Terms and definitions are consistent with DSM IV TR and ICD 10

Lewis's Medical-Surgical Nursing, Fourth South Asia Edition - E-Book Chintamani, Dr. L. Gopichandran, Mrinalini Mani, 2021-12-21 Content mapped and aligned to the revised BSc Nursing syllabus. Nearly 60 nursing care plans incorporated within the textbook focusing on nursing assessment, diagnoses, intervention, and outcome, applying them to nursing practice. Several new pathophysiology maps added to the chapters. National programs added: National Blindness Control Program, National Deafness Control Program, Indian Transplantation programs. Other topics incorporated in the text: Eye banking, Post heart transplant follow up management with checklist, Nursing management of patients in emergency and disaster situations. Highlights of newly introduced courses: e.g. Nurse Practitioner, Midwifery, Hospice care in India, National Pressure Ulcer Advisory Panel (NPUAP) guidelines for assessment of pressure ulcers, Screening for breast cancer and cervical cancer. Content on occupational and industrial disorders added. Ancillary Content on MedEnact Website, Educator Resources, TEACH for Nurses, lesson plans, PowerPoint presentations, Image Collection, Nursing Care Plans, Student Resources, Key Points, Review Questions, Case Studies, Answer Keys for Case Studies and Rationales for Bridge to NCLEX Examination questions, Nursing Care Plans

FMGEMS Clinical Sciences Examination Review Michael A. Baker, 1991 Study Guide and Solutions Manual for Students, to Accompany General Genetics David Freifelder, Leon A. Snyder, 1985

Medical Technology Examination Review and Study Guide Anna P. Ciulla, Georganne K. Buescher, 1992 This self examination review is designed to prepare students for exams such as the US National Certificate Examinations. Over 200 multiple choice and objective questions are accompanied by detailed explanations. The new edition features a practice exam and additional case study questions

Medical Genetics for Health Professionals Stanley Kaplan, 1981

Written Registry Exam Review for Respiratory Care William V. Wojciechowski, 2001 This examination review book provides a personalized study plan for students preparing for the National Board for Respiratory Care (NBRC) Written Registry Examination. It presents an exhaustive review of the test matrix with over 850 questions and analyses based on the

1999 Examination Matrix A chapter on test taking strategies is designed to build self confidence and explains how to think the NBRC way Each question contains a detailed analysis about the question and a list of references for further study Detailed scoring forms are available throughout the book to assist candidates in evaluating strengths and weaknesses and for assessing progress while working through the book Each question is also linked to a specific examination matrix item allowing candidates to become familiar with the test matrix Computer software allows the students to practice and review material in a similar environment that mimics the actual examination RT RTT Respiratory Care Respiratory Therapy Resp Care Resp Therapy RC

Genetics Peter J. Russell,1998 Containing updated information on molecular genetics Peter J Russell s text emphasises a problem solving approach that helps students to develop and apply their critical thinking and analysis skills

Questions and Answers about Infertility and Its Treatment ,2002 *Oncology Nursing Certification (OCN): Self-Assessment and Exam Review* Kerry Hennessy,Vanna M. Dest,Meghan Routt,2017-12-22 The evidence based coverage oncology nurses need to safely and effectively care for patients or prepare for their certification exam Written by top experts in oncology nursing from leading cancer centers Oncology Nursing Certification delivers comprehensive well written coverage of the must know details of caring for oncologic patients and their families Supported by useful tables algorithms illustrations and clinical cases the book features a practical building block organization that starts with the basics and advances to more complex topics Oncology Nursing Certification is logically divided into four sections which taken as a whole will gives nurses a complete understanding of this challenging nursing specialty The Essentials Certification Review Practice Exams and Key Reference Information Outstanding review for the oncologic nursing certification exam Key features include Knowledge Competencies High Yield Term Glossaries Clinical Case Reviews and Chapter Summary Checklists Includes two complete 150 question practice exams

Phlebotomy Exam Review Ruth E. McCall,1996-09 Prepare for the challenges of certification with Phlebotomy Exam Review This superb review covers the essential information featured in phlebotomy certification exams Compiled by experts in the field this comprehensive resource is designed specifically to help you access key facts in a flash using an easy to use outline format reinforce essential concepts through answers with rationale for correct responses test your knowledge with 800 detailed exam style review questions and build confidence with two sample exams one in the text one on a Free Computer Disk

[Emergency Nursing Certification \(CEN\): Self-Assessment and Exam Review](#) Jayne McGrath,Andi Foley,2016-12-22 The most thorough and up to date review available for the Certified Emergency Nurse Exam Emergency Nursing Certification is a complete step by step guide that thoroughly covers everything you need to know to pass the Certified Emergency Nurse CEN examination Presented in short easy to read chapters the book includes subject specific practice exams allowing you to target your study and quickly identify weak areas In addition the Key Points and Knowledge Competencies features highlight what s important to know for the exam and alerts you to the number of questions you should expect on every given topic Everything you need to pass the Certified Emergency Nurse CEN exam

Core areas of Emergency Nursing practice arranged by body system Valuable test taking tips to help you perform your best on the exam Practice questions at the end of each chapter with multiple choice questions and complete answer explanation Content covers every topic you will see on the exam including Cardiovascular Emergences Gastrointestinal Emergencies Neurologic Emergencies Maxillofacial and Ocular Emergencies Orthopedic and Wound Emergencies Respiratory Emergencies Medical Emergencies and Communicable Diseases Professional Issues **The Eugenics Review** ,1928

Medical Examination Review Book ,1970 **Electrical Review and Western Electrician with which is Consolidated Electrocraft** ,1913 *New York Review of the Telegraph and Telephone and Electrical Journal* ,1913 Child Health Nursing Examination Review Sylvia Kleiman Fields,Ruth Yurchuck,1985 Physician Assistant Examination Review Richard R. Rahr,Bruce R. Niebuhr,1991 **Study Guide** George Karleskint,1991

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The Way of Shadows (Night Angel, #1) by Brent Weeks The Way of Shadows is an entertaining start for Night Angel trilogy (soon to be tetralogy). Azoth, a guild rat, struggles to survive in the Warren's dirty and ... The Way of Shadows: The Night Angel Trilogy Book overview ... From NYT bestselling author Brent Weeks comes the first novel in his breakout fantasy trilogy in which a young boy trains under the city's most ... The Way of Shadows The Way of Shadows is a 2008 fantasy novel written by Brent Weeks and is the first novel in The Night Angel Trilogy. The Way of Shadows - Night Angel Wiki - Fandom The Way of Shadows is a fantasy novel written by Brent Weeks and is the first novel in The Night Angel Trilogy. The story takes place in Cenaria City, ... The Plot Summary Roth tells Kylar he is Rat. While being held captive Kylar breaks free of his magic chains and kills every guard and Vurdmeisters.Kylar also kills Roth, but he ... The Way of Shadows The Way of Shadows ... The first novel in the Night Angel trilogy, the breakneck epic fantasy from New York Times bestselling author Brent Weeks. For Durzo Blint, ... The Way of Shadows (Night Angel Trilogy #1) Overview. A modern classic of epic fantasy, New York Times bestseller The Way of Shadows is the first volume in the multi-million copy selling Night Angel ... Night

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