

When Darwin proposed the theory of evolution by natural selection, scientists did not know about genes and DNA; he was just trying to explain the appearance and frequency of outward traits. We now know this phenomenon is the result of alleles, and we know how dominant genes and recessive genes control outward traits.

The Hardy-Weinberg Principle

The Hardy-Weinberg principle states that the frequency of genes stays constant in a population unless some mechanism of change occurs. Without forces of change, evolution doesn't occur and a population is at genetic equilibrium.



In a population of 100 sweet pea plants,

- 45 are homozygous dominant (TT),
- 35 are heterozygous (Tt), and
- 20 are homozygous recessive (tt).

So, this population has $(45 \times 2) + 35 = 125$ dominant alleles and $(20 \times 2) + 35 = 75$ recessive alleles.

The frequency of the dominant allele, T, is given by $p = \frac{125}{200} = 0.625$.

The frequency of the recessive allele, t, is given by $q = \frac{75}{200} = 0.375$.

The frequency of the homozygous dominant genotype, TT, is given by $p^2 = 0.625^2 = \frac{1}{4}$.

The frequency of the heterozygous genotype, Tt, is given by $2pq = 2(0.625)(0.375) = \frac{1}{2}$.

The frequency of the homozygous recessive genotype, tt, is given by $q^2 = 0.375^2 = \frac{1}{16}$.



The Hardy-Weinberg Equilibrium Equation

$$(p + q)^2 = p^2 + 2pq + q^2 = 1$$

p = frequency of ☒ dominant ☐ recessive allele in a population

→ p^2 = equilibrium frequency of homozygous ☒ dominant ☐ recessive genotype

q = frequency of ☐ dominant ☒ recessive allele in a population

→ q^2 = equilibrium frequency of homozygous ☐ dominant ☒ recessive genotype

→ $2pq$ = equilibrium frequency of heterozygous genotype

Biosphere Guided Answer Key

Gerald L. Kellogg, Starr



Biosphere Guided Answer Key:

Environmental Science Michael L. McKinney, Robert M. Schoch, Logan Yonavjak, 2012 Updated with the latest data from the field Environmental Science Systems and Solutions Fifth Edition explains the concepts and teaches the skills needed to understand multi faceted and often very complex environmental issues The authors present the arguments rebuttals evidence and counterevidence from many sides of the debate The Fifth Edition includes new Science in Action boxes which feature cutting edge case studies and essays contributed by subject matter experts that highlight recent and ongoing research within environmental science With an Earth as a system approach the text continues to emphasize Earth s intricate web of interactions among the biosphere atmosphere hydrosphere and lithosphere and how we are central components in these four spheres This flexible unbiased approach highlights 1 how matter cycles over time through Earth s systems 2 the importance of the input throughput output processes that describe the global environment 3 how human activities and consumption modify Earth s systems 4 and the scientific economic and policy solutions to environmental problems Revised and updated to reflect current trends and statistics within Environmental Science New content on renewable energy solar panels and compact fluorescent light bulbs The latest information on Hydropower and the advantages and disadvantages of hydroelectric energy The companion website includes robust learning tools that enable students to make full use of today s learning technology Students will find practice quizzes virtual flashcards answers to in text questions and links to additional coverage regarding material discussed in the text Instructor Resources include an instructor s manual Test Bank PowerPoint Lecture Outline Slides and a PowerPoint Image Bank [GO TO NDA/ NA Guide for General Knowledge](#) , [Guide to RRB Non Technical Recruitment Exam](#) Disha Experts, 2017-09-02 Guide to RRB Non Technical Recruitment Exam is an ultimate attempt to provide exposure to the students for the upcoming Non technical exam The book has 4 sections General Intelligence Reasoning General Awareness General Science and Arithmetic Each section is further divided into chapters which contains theory explaining the concepts involved followed by MCQ exercises The detailed solutions to all the questions are provided at the end of each chapter The General Science section provides material for Physics Chemistry and Biology There is a special chapter created on Railways in the general awareness section The book covers 100% syllabus as prescribed in the notification of the RRB exam [Guide to RRB Junior Engineer Mechanical 2nd Edition](#) Disha Experts, Guide to RRB Junior Engineer Mechanical 2nd Edition has 5 sections General Intelligence Reasoning General Awareness General Science Arithmetic and Technical Ability Each section is further divided into chapters which contains theory explaining the concepts involved followed by MCQ exercises The book provides the 2015 Solved Paper The detailed solutions to all the questions are provided at the end of each chapter The General Science section provides material for Physics Chemistry and Biology till class 10 There is a special chapter created on Computer Knowledge in the Technical section There is a special chapter created on Railways in the general awareness section The book covers 100% syllabus as prescribed in the

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