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(MCQs)

Concepts and Problem

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Review)

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on a problem type that they may encounter, and a worked example modeled after the Genetic Analysis feature of the main textbook. The solutions also reflect the Evaluate, Deduce, and Solve strategy of the Genetic Analysis feature. As not all end-of-chapter problems will require all three

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DETAILS - The PROBLEM

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and different aspects of the principle being studied. The numerous possible variations of principles and their applications are usually not discussed, and it is left to the reader to discover this while

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out much explanatory material between steps, and as a result requires the reader to figure out the missing information. This leaves the reader with an impression that the problems and even the subject are hard

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to learn - completely the opposite of what an example is supposed to do. Poor examples are often worded in a confusing or obscure way. They might not state the nature of the problem or they

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present a solution, which appears to have no direct relation to the problem. These problems usually offer an overly general discussion - never revealing how or what is to be solved. Many examples

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do not include accompanying diagrams or graphs, denying the reader the exposure necessary for drawing good diagrams and graphs. Such practice only strengthens understanding by simplifying

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and organizing biology processes. Students can learn the subject only by doing the exercises themselves and reviewing them in class, obtaining experience in applying the principles with

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their different ramifications. In doing the exercises by themselves, students find that they are required to devote considerable more time to biology than to other subjects, because they are uncertain

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with regard to the selection and application of the theorems and principles involved. It is also often necessary for students to discover those "tricks" not revealed in their texts (or

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review books) that make it possible to solve problems easily. Students must usually resort to methods of trial and error to discover these "tricks," therefore finding out that they may sometimes

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spend several hours to solve a single problem. When reviewing the exercises in classrooms, instructors usually request students to take turns in writing solutions on the boards and explaining

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them to the class. Students often find it difficult to explain in a manner that holds the interest of the class, and enables the remaining students to follow the material written on the boards. The

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remaining students in the class are thus too occupied with copying the material off the boards to follow the professor's explanations. This book is intended to aid students in biology overcome

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the difficulties described by supplying detailed illustrations of the solution methods that are usually not apparent to students. Solution methods are illustrated by problems that have been selected from

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the problems in sequence. The problems are illustrated with detailed, step-by-step explanations, to save the students large amounts of time that is often needed to fill in the gaps that are usually

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found between steps of illustrations in textbooks or review/outline books. The staff of REA considers biology a subject that is best learned by allowing students to view the methods of analysis and

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solution techniques. This learning approach is similar to that practiced in various scientific laboratories, particularly in the medical fields. In using this book, students may review and

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study the illustrated problems at their own pace; students are not limited to the time such problems receive in the classroom. When students want to look up a particular type of problem and solution,

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they can readily locate it in the book by referring to the index that has been extensively prepared. It is also possible to locate a particular type of problem by glancing at just the material within the boxed

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portions. Each problem is numbered and surrounded by a heavy black border for speedy identification.

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