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 3.1 Mode of action of enzymes
 3.2 Factors that affect enzyme action

Chapter 4 : Cell membranes and transport
 4.1 Fluid mosaic membranes
 4.2 Movement of substances into and out of cells

Chapter 5 : The mitotic cell cycle
 5.1 Replication and division of nuclei and cells
 5.2 Chromosome behaviour in mitosis

Chapter 6 : Nucleic acids and protein synthesis
 6.1 Structure and replication of DNA
 6.2 Protein synthesis

Chapter 7 : Transport in plants
 7.1 Structure of transport tissues
 7.2 Transport mechanisms

Chapter 8 : Transport in mammals
 8.1 The circulatory system
 8.2 The heart

Chapter 9 : Gas exchange and smoking
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 9.2 Smoking

Chapter 10 : Infectious disease
 10.1 Infectious disease
 10.2 Infectious disease

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were ever developed to follow in a step-by-step manner to solve typically encountered problems. This results from numerous different conditions and principles involved in a problem that leads to many possible different solution methods. To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps, making this task more burdensome than solving the problem directly due to the expectation of much trial and error. Current textbooks normally explain a given principle in a few pages written by a biologist who has insight into the subject matter not shared by others. These explanations are often written in an abstract manner that causes confusion as to the principle's use and application. Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications 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 doing exercises. Accordingly, the average student is expected to rediscover that which has long been established and practiced, but not always published or adequately explained. The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles. The explanations do not provide sufficient basis to solve problems that may be assigned for homework or given on examinations. Poorly solved examples such as these can be presented in abbreviated

form which leaves out much processes. Students can explanatory material learn the subject only by between steps, and as a do the exercises result requires the reader themselves and reviewing to figure out the missing them in class, obtaining information. This leaves the experience in applying the reader with an impression principles with their that the problems and even different ramifications. In the subject are hard to do the exercises by learn - completely the themselves, students find opposite of what an that they are required to example is supposed to do. devote considerable more Poor examples are often time to biology than to worded in a confusing or other subjects, because obscure way. They might they are uncertain with not state the nature of the regard to the selection and problem or they present a application of the theorems solution, which appears to and principles involved. It have no direct relation to is also often necessary for the problem. These students to discover those problems usually offer an "tricks" not revealed in overly general discussion - their texts (or review never revealing how or books) that make it what is to be solved. Many possible to solve problems examples do not include easily. Students must accompanying diagrams or usually resort to methods graphs, denying the reader of trial and error to the exposure necessary for discover these "tricks," drawing good diagrams and therefore finding out that graphs. Such practice only they may sometimes spend strengthens understanding several hours to solve a by simplifying and single problem. When organizing biology reviewing the exercises in

classrooms, instructors usually request students to take turns in writing solutions on the boards and explaining 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 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 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 those most often assigned for class work and given on examinations. The problems are arranged in order of complexity to enable students to learn and understand a particular topic by reviewing 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 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 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 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, 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 portions. Each problem is numbered and surrounded by a heavy black border for speedy identification.

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