

1

The Science of Biology

Chapter Test A

Multiple Choice

Write the letter that best answers the question or completes the statement on the line provided.

- _____ 1. Science differs from other disciplines, such as history and the arts, because science relies on
- facts.
 - testing explanations.
 - observations.
 - theories.
- _____ 2. Measurements made while observing a plant grow 3 cm over a two-week period are called
- inferences.
 - variables.
 - hypotheses.
 - data.
- _____ 3. Based on your observations, you suggest that the presence of water could accelerate the growth of bread mold. This is
- a conclusion.
 - a hypothesis.
 - an experiment.
 - an analysis.
- _____ 4. Suppose that a scientist proposes a hypothesis about how a newly discovered virus affects humans. Other virus researchers would likely
- reject the hypothesis right away.
 - change the hypothesis to fit their own findings.
 - design new experiments to test the proposed hypothesis.
 - assume that the hypothesis is true for all viruses.
- _____ 5. Why is creativity considered a scientific attitude?
- Scientists need creativity to make good posters to explain their ideas.
 - Creativity helps scientists come up with different experiments.
 - Creative scientists imagine the results of experiments without doing them.
 - Scientists who are creative are better at handling and training animals.
- _____ 6. Who reviews articles for peer-reviewed journals?
- friends of the scientists who wrote the articles
 - anonymous and independent experts
 - the scientists who did the experiments
 - people who paid for the experiments
- _____ 7. How does sharing ideas through peer-reviewed articles help advance science?
- Peer-reviewed articles are published only when the ideas they contain have been accepted by most scientists.
 - Experiments in peer-reviewed articles do not need to be repeated.
 - Scientists reading the articles may come up with new questions to study.
 - Ideas in the articles always support and strengthen dominant theories.

Modern Biology Chapter 1 Test

M Woodhall



Modern Biology Chapter 1 Test:

Modern Statistics for Modern Biology SUSAN. HUBER HOLMES (WOLFGANG.), Wolfgang Huber, 2018 Modern Biology James Howard Otto, 1985 *Modern Issues and Methods in Biostatistics* Mark Chang, 2011-07-15 Classic biostatistics a branch of statistical science has as its main focus the applications of statistics in public health the life sciences and the pharmaceutical industry Modern biostatistics beyond just a simple application of statistics is a confluence of statistics and knowledge of multiple intertwined fields The application demands the advancements in computer technology and the rapid growth of life science data e g genomics data have promoted the formation of modern biostatistics There are at least three characteristics of modern biostatistics 1 in depth engagement in the application fields that require penetration of knowledge across several fields 2 high level complexity of data because they are longitudinal incomplete or latent because they are heterogeneous due to a mixture of data or experiment types because of high dimensionality which may make meaningful reduction impossible or because of extremely small or large size and 3 dynamics the speed of development in methodology and analyses has to match the fast growth of data with a constantly changing face This book is written for researchers biostatisticians statisticians and scientists who are interested in quantitative analyses The goal is to introduce modern methods in biostatistics and help researchers and students quickly grasp key concepts and methods Many methods can solve the same problem and many problems can be solved by the same method which becomes apparent when those topics are discussed in this single volume Modern Biology Albert Towle, 1989 **Teacher's Guide to the Modern Biology Program** James Howard Otto, Albert Towle, Elizabeth H. Crider, 1965 **Modern Biology and the Theory of Evolution** Erich Wasmann, 1910 *Annelids in Modern Biology* Daniel H. Shain, 2009-04-22 Annelids offer a diversity of experimentally accessible features making them a rich experimental subject across the biological sciences including evolutionary development neurosciences and stem cell research This volume introduces the Annelids and their utility in evolutionary developmental biology neurobiology and environmental ecological studies including extreme environments The book demonstrates the variety of fields in which Annelids are already proving to be a useful experimental system Describing the utility of Annelids as a research model this book is an invaluable resource for all researchers in the field **Modern Blood Banking & Transfusion Practices** Denise M Harmening, 2018-11-30 Join the generations of students who have embarked on successful careers with a firm foundation in the theory and practice of blood banking and transfusion practices Denise Harmening's classic text teaches you not only how to perform must know tests and tasks but to understand the scientific principles behind them The Story of Modern Science Henry Smith Williams, 1923 **Concepts in Modern Biology** David Kraus, 1984 **Videodisc Correlatn GD Modern Biology 99** Holt Rinehart & Winston, 1998-02 **Modern Biology** Truman Jesse Moon, 1958 **Modern Biology, 1991** Albert Towle, 1989 **The American Biology Teacher**, 1997 **Evolution and Social Progress** Joseph Husslein, 1920 SAT Two, Biology and Biology E/M Maurice

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