

Examine the cladogram below. Each letter represents a derived characteristic. Match the letter to its characteristic.



- | | | | |
|--------------------|---------------------|--------------------|-------------------------|
| 13. F _____ | Wings | 17. E _____ | Cerci (back appendages) |
| 14. C _____ | 6 legs | 18. D _____ | Crushing mouthparts |
| 15. A _____ | Segmented Body | 19. B _____ | Legs |
| 16. G _____ | Double set of wings | 20. H _____ | Curly Antennae |

Circle the correct answer for the cladogram question below.

The cladogram shows the evolution of land plants as indicated by fossil records.



21. Which discovery would challenge the validity of this cladogram?
- A large aquatic vascular plant about 200 million years old
 - A species of algae that has existed for less than one million years
 - A moss species that has existed for less than 380 million years
 - A fossil of a fern more than 425 million years old

D - Derived Character (Vascular Tissue) evolved 209 million years ago. Ferns have this trait.

Cladogram Example Problems And Answers

Donald R. Prothero



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The Evolution and Extinction of the Dinosaurs David E. Fastovsky, David B. Weishampel, 2005-02-07 This 2005 edition of *The Evolution and Extinction of the Dinosaurs* is a unique comprehensive treatment of this fascinating group of organisms. It is a detailed survey of dinosaur origins, their diversity, and their eventual extinction. The book can easily be used as a teaching textbook for a class, but it is also written as a series of readable, entertaining essays covering important and timely topics appealing to non-specialists and all dinosaur enthusiasts: birds as living dinosaurs, the new feathered dinosaurs from China, warm-bloodedness. Along the way, the reader learns about dinosaur functional morphology, physiology, and systematics using cladistic methodology in short, how professional paleontologists and dinosaur experts go about their work and why they find it so rewarding. The book is spectacularly illustrated by John Sibbick, a world-famous illustrator of dinosaurs, commissioned exclusively for this book.

[Bringing Fossils to Life](#) Donald R. Prothero, 2013-11-05 One of the leading textbooks in its field, *Bringing Fossils to Life* applies paleobiological principles to the fossil record while detailing the evolutionary history of major plant and animal phyla. It incorporates current research from biology, ecology, and population genetics, bridging the gap between purely theoretical paleobiological textbooks and those that describe only invertebrate paleobiology and that emphasize cataloguing live organisms instead of dead objects. For this third edition, Donald R. Prothero has revised the art and research throughout, expanding the coverage of invertebrates and adding a discussion of new methodologies and a chapter on the origin and early evolution of life.

Geometric Morphometrics for Biologists Miriam Zelditch, Donald Swiderski, H. David Sheets, William L. Fink, 2004-07-21 *Geometric Morphometrics for Biologists* is an introductory textbook for a course on geometric morphometrics, written for graduate students and upper division undergraduates, covering both theory of shape analysis and methods of multivariate analysis. It is designed for students with minimal math background, taking them from the process of data collection through basic and more advanced statistical analyses. Many examples are given, beginning with simple, although realistic, case studies through examples of complex analyses requiring several different kinds of methods. The book also includes URLs for free software and step-by-step instructions for using the software. Accessible student-tested introduction to sophisticated methods of biological shape analysis. Detailed instructions for conducting analyses with freely available, easy-to-use software. Numerous illustrations, including graphical presentations of important theoretical concepts and demonstrations of alternative approaches to presenting results. Many realistic examples, both simple and complex, from ongoing research. Comprehensive glossary of technical terms.

[New Zealand Journal of Zoology](#), 1989

Bringing Fossils To Life: An Introduction To Paleobiology Donald R. Prothero, 2004 This is the first text to combine both paleontology and paleobiology. Traditional textbooks treat these separately, despite the recent trend to combine them in teaching. It bridges the gap between purely theoretical paleobiology and purely descriptive invertebrate paleontology books. The text is targeted at undergraduate geology and biology majors, with the emphasis on organisms rather than dead objects to be described and

catalogued Current ideas from modern biology ecology population genetics and many other concepts will be applied to the study of the fossil record

Third North American Paleontological Convention Bernard L. Marnett, Murray John Copeland, 1982

The Human Lineage Matt Cartmill, Fred H. Smith, 2011-09-20 This textbook aimed at advanced undergraduates and postgraduates in paleoanthropology courses tackles a rather difficult task that of presenting the substantial body of paleontological genetic geological and archaeological evidence regarding human evolution and the associated scientific history in a logical and readable way without sacrificing either clarity or detail the sheer quality of the writing and explanatory synthesis in this book will undoubtedly make it a valuable resource for students for many years

PaleoAnthropology 2010 This book focuses on the last ten million years of human history from the hominoid radiations to the emergence and diversification of modern humanity It draws upon the fossil record to shed light on the key scientific issues principles methods and history in paleoanthropology The book proceeds through the fossil record of human evolution by historical stages representing the acquisition of major human features that explain the success and distinctive properties of modern Homo sapiens Key features Provides thorough coverage of the fossil record and sites with data on key variables such as cranial capacity and body size estimates Offers a balanced critical assessment of the interpretative models explaining pattern in the fossil record Each chapter incorporates a Blind Alley box focusing on once prevalent ideas now rejected such as the arboreal theory seed eating single species hypothesis and Piltdown man Promotes critical thinking by students while allowing instructors flexibility in structuring their teaching Densely illustrated with informative well labelled anatomical drawings and photographs Includes an annotated bibliography for advanced inquiry Written by established leaders in the field providing depth of expertise on evolutionary theory and anatomy through to functional morphology this textbook is essential reading for all advanced undergraduate students and beginning graduate students in biological anthropology

Phylogenetic Patterns and the Evolutionary Process Niles Eldredge, Joel Cracraft, 1980

The Crucible of Creation Simon Conway Morris, 1998 Paleontologist Simon Conway Morris provides a guided tour of the world's richest treasure trove of fossils a fantastically rich deposit of bizarre and bewildering Cambrian fossils located in Western Canada 4 plates 90 linecuts

The Yearbook of Research in English and American Literature, 1991

American Paleontologist, 2001

Advancements in Insect Biodiversity Rajiv K. Gupta (Associate professor), 2004 Agrob incl maps

Australian Systematic Botany, 1991

Problems of Phylogenetic Reconstruction Systematics Association, 1982

Austral Biogeography Pauline Y. Ladiges, Christopher John Humphries, Lawrence Walter Martinelli, 1991

Essays in Paleontology & Stratigraphy Curt Teichert, Ellis Leon Yochelson, 1967

Dinosaurs Spencer G. Lucas, 2000 This text is intended for a one quarter or one semester introductory course on dinosaurs It is a book that introduces dinosaur biology geology and the history of their discovery It is a text that presents facts together with current ideas notions and controversies Dr Lucas presents dinosaurs as successful living creatures that were merely different in appearance from animals living today The

book is designed to be understood by students with little scientific background as it teaches students not only how to use scientific methods but how to synthesize data to create their own ideas **Canadian Journal of Botany** ,1995
Evolutionary Theory ,1989 **Biology, Science and Life** Wallace,Tietjen,1996

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Table of Contents Cladogram Example Problems And Answers

1. Understanding the eBook Cladogram Example Problems And Answers
 - The Rise of Digital Reading Cladogram Example Problems And Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Cladogram Example Problems And Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cladogram Example Problems And Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cladogram Example Problems And Answers
 - Personalized Recommendations
 - Cladogram Example Problems And Answers User Reviews and Ratings
 - Cladogram Example Problems And Answers and Bestseller Lists
5. Accessing Cladogram Example Problems And Answers Free and Paid eBooks
 - Cladogram Example Problems And Answers Public Domain eBooks
 - Cladogram Example Problems And Answers eBook Subscription Services
 - Cladogram Example Problems And Answers Budget-Friendly Options

6. Navigating Cladogram Example Problems And Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Cladogram Example Problems And Answers Compatibility with Devices
 - Cladogram Example Problems And Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cladogram Example Problems And Answers
 - Highlighting and Note-Taking Cladogram Example Problems And Answers
 - Interactive Elements Cladogram Example Problems And Answers
8. Staying Engaged with Cladogram Example Problems And Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cladogram Example Problems And Answers
9. Balancing eBooks and Physical Books Cladogram Example Problems And Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cladogram Example Problems And Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cladogram Example Problems And Answers
 - Setting Reading Goals Cladogram Example Problems And Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cladogram Example Problems And Answers
 - Fact-Checking eBook Content of Cladogram Example Problems And Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

-
- Interactive and Gamified eBooks

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