

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



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

**Wenbin Ji**



## Cladogram Example Problems And Answers:

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 on going research. Comprehensive glossary of technical terms.

**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.

**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. Mamet, Murray John Copeland, 1982 Phylogenetic Patterns and the Evolutionary Process Niles Eldredge, Joel Cracraft, 1980 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

*The Yearbook of Research in English and American Literature* ,1991 *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

*Advancements in Insect Biodiversity* Rajiv K. Gupta (Associate professor), 2004 Agrob incl maps **American Paleontologist** ,2001 **Austral Biogeography** Pauline Y. Ladiges, Christopher John Humphries, Lawrence Walter Martinelli, 1991 **Problems of Phylogenetic Reconstruction** Systematics Association, 1982 Essays in Paleontology & Stratigraphy Curt Teichert, Ellis Leon Yochelson, 1967 Australian Systematic Botany ,1991 A Revised Cladistic Classification of the Nepticulidae (Lepidoptera) with Descriptions of New Taxa Mainly from South Africa M. J. Scoble, 1983

*Fifth International Mycological Congress* ,1995 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

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