

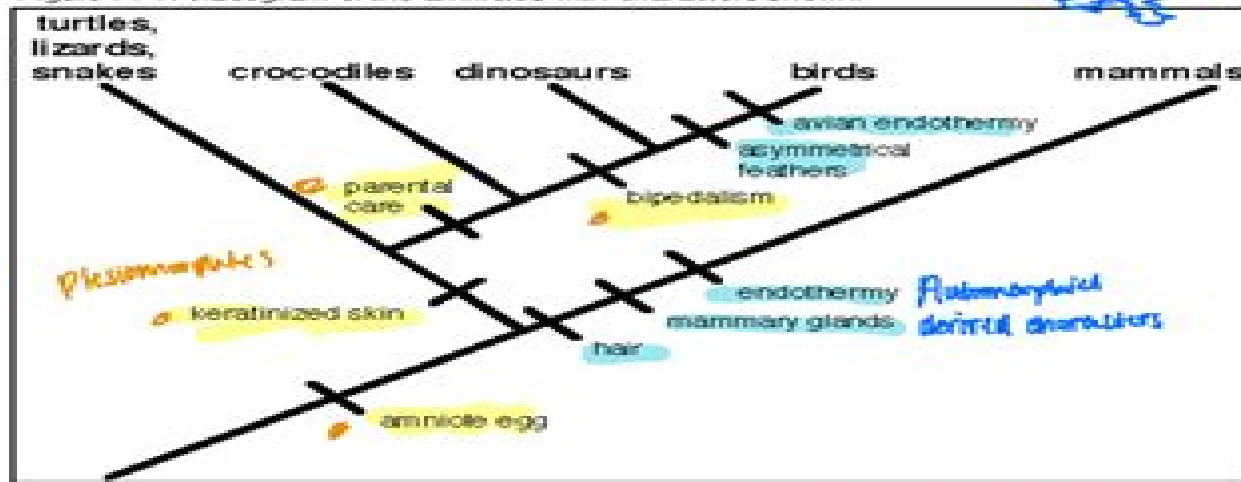
## QUESTIONS AND PRACTICE PROBLEMS

Be prepared to answer the questions and solve the problems given below in front of the class during your laboratory period or discussion.

### Questions about characters and cladograms

Use the cladogram shown in Figure P to answer questions 1-17.

Figure P. A cladogram of the amniotes with characters shown.



1. Name five characters possessed by birds. Which are apomorphies? Which are plesiomorphies?   
*apomorphies: parental care, bipedalism, feathers, endothermy*   
*plesiomorphies: keratinized skin, amniote egg*   
*Characteristic or trait that unique to a group*   
*ancestral trait*

2. Name two characters possessed by reptiles/birds (the group comprised of turtles, lizards, snakes + crocodiles + dinosaurs + birds; including their common ancestors). Which is an apomorphy? Which is a plesiomorphy?

*keratinized skin + amniotic egg (Ap: keratinized skin) (Ples: amniotic egg)*

3. Name four characters possessed by mammals. Which are apomorphies? Which one is a plesiomorphy?

*endothermy, mammary glands, hair, amniotic egg (Ap: hair, mammary glands, endothermy) (Ples: amniotic egg)*

4. Can a character be both an apomorphy and a plesiomorphy? Explain your answer.

*yes but it totally depends on the frame of reference when looking at cladograms*

# Cladistics Questions And Practice Problems Answers

**Michael Boylan**



## **Cladistics Questions And Practice Problems Answers:**

**Biological Systematics** Randall T. Schuh, Andrew V. Z. Brower, 2011-04-15 Biological Systematics Principles and Applications draws equally from examples in botany and zoology to provide a modern account of cladistic principles and techniques. It is a core systematics textbook with a focus on parsimony based approaches for students and biologists interested in systematics and comparative biology. Randall T. Schuh and Andrew V. Z. Brower cover the history and philosophy of systematics and nomenclature, the mechanics and methods of analysis and evaluation of results, the practical applications of results and wider relevance within biological classification, biogeography, adaptation and coevolution, biodiversity and conservation, and software applications. This new and thoroughly revised edition reflects the exponential growth in the use of DNA sequence data in systematics. New data techniques and a notable increase in the number of examples from molecular systematics will be of interest to students increasingly involved in molecular and genetic work. Journal of Vertebrate Paleontology, 2003-04

**Hierarchical Evolutionary-Developmental Theory** Carlos Ochoa, 2025-06-23 This book introduces a new evolutionary model called Hierarchical Evolutionary Developmental Theory or H Evo Devo Theory. This theory proposes that the organism's internal properties reflect entities that are highly integrated in developmental terms that evolve hierarchically. In other words, it attempts to demonstrate that developmental constraints operate at different scales, producing distinct states of morphological stability reflected as subspecies, species, higher taxa, and homologues, all representing units of evolution. In addition, it reintroduces the concept of the organism in evolutionary biology, supports a strictly macroevolutionary view, and contemplates alternative evolutionary rates, processes, and mechanisms at different levels: microevolution, macroevolution, megaevolution, and modular evolution. In short, this book establishes a new synthesis between systematics, morphology, and evolution, suggesting a significant shift in evolutionary thought. The book comprises:

1. A proposal for a new theory of evolution and systematics. The H Evo Devo Theory reinterprets the concepts of subspecies, species, higher taxa, and homologues, proposing that the phylogenetic tree is built on a hierarchy of types developed from the top down, in contrast to the traditional bottom-up approach.
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3. A resolution to the ontological problem regarding units of evolution, e.g., the reality of species and higher taxa.
4. A historical narrative that focuses on the development of a hierarchy theory of evolution grounded in the type concept and the significance of an organism-centered perspective.
5. A challenge to traditional frameworks that have sought to establish hierarchies in an evolutionary context.
6. A challenge to classical evolutionary statements such as gradualism, punctuated equilibrium, the extrapolationist premise, and geographical models of speciation.

This book is written for those who feel that radical change is needed in evolutionary theory, offering them a viable alternative. The Blackwell Companion to Hermeneutics Niall Keane, Chris Lawn, 2015-10-14 THE BLACKWELL COMPANION TO HERMENEUTICS The Blackwell Companion to Hermeneutics is destined to become an

invaluable resource for its incisive discussions of all aspects of hermeneutics within the field of philosophy Burt Hopkins Seattle University This is an extraordinarily rich collection of articles on every aspect of hermeneutics It covers not just the history of hermeneutics from the ancient Greeks to the present but also topics ranging from aesthetics and politics to pragmatism and deconstruction as analyzed by key thinkers such as Schleiermacher Dilthey Heidegger Gadamer Vattimo and Apel This Companion is an essential guide to the hermeneutic tradition Dermot Moran University College Dublin

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*Assumptions Inhibiting Progress in Comparative Biology* Brian I. Crother, Lynne R. Parenti, 2016-11-18 This book is a thought provoking assessment of assumptions inhibiting progress in comparative biology The volume is inspired by a list generated years earlier by Donn Rosen one of the most influential innovative and productive comparative biologists of the latter 20th century His list has assumed almost legendary status among comparative evolutionary biologists Surprisingly many of the obstructing assumptions implicated by Rosen remain relevant today Any comparative biologist hoping to avoid such assumptions in their own research will benefit from this introspective volume

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**Darwin's Legacy: The Status of Evolutionary Archaeology in Argentina** Marcelo Cardillo, Hernán Muscio, 2016-01-22 This book collects the

contributions to the symposium The current state of evolutionary archeology in Argentina that was held in Buenos Aires for celebrating the 200th anniversary of Charles Darwin s birth and the 150th anniversary of the publication of On the Origin of Species *Im/Tb Ess Physical Anthro* Jurmain,2003-07 **Grass Systematics and Evolution** Thomas R. Soderstrom,1987 This series aims to publish innovative works in the field of zoo and aquarium biology and conservation with priority given to books that focus on the interface between captive and field conservation and seek to merge theory with practice This volume summarizes the large body of research on grasses of the last quarter century and encompasses a wide range of topics from morphology to DNA Holt Biology Rob DeSalle,Holt Rinehart and Winston,2008 Holt Biology Student Edition 2008 *Method and Practice in Aristotle's Biology* Michael Boylan,1983 A thoughtful study which integrates Aristotle s philosophy of science in the Organon and in the Parts of Animals with his actual biological investigations Biologist ,1985 **Neues Jahrbuch für Geologie und Paläontologie** ,2004 **The Zoological Record** ,1994 Dictionary of Gardening Anthony Huxley,Royal Horticultural Society (Great Britain),1992 Gerald D. Schmidt & Larry S. Roberts' Foundations of Parasitology Gerald D. Schmidt,Larry S. Roberts,John Janovy,1996 The fifth edition of this introductory textbook emphasizes principles with related information on the biology physiology morphology and ecology of the major parasites of humans and domestic animals It uses a balanced approach to all major phyla of parasites *Ecology* ,1998 **South African Journal of Science** ,1991 Abstracts of the Annual Meeting -- American Anthropological Association American Anthropological Association,2003 *Field Studies* ,1982

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