

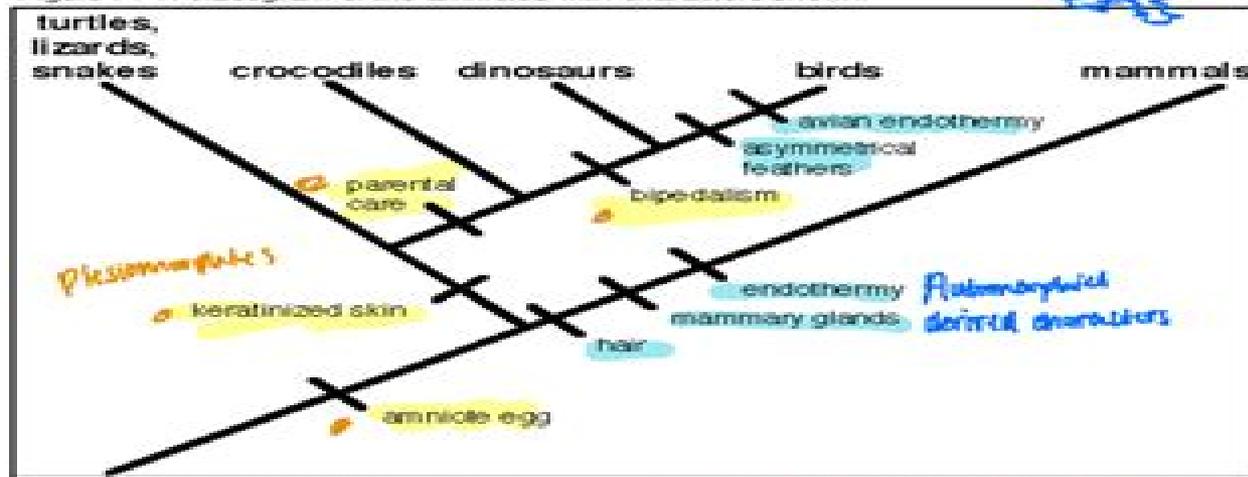
QUESTIONS AND PRACTICE PROBLEMS

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: avian endothermy, asymmetrical feathers, bipedalism, parental care, amniote egg
Characteristic or trait that is unique to a group
plesiomorphies: keratinized skin, hair, mammary glands, endothermy
Characteristic or trait that is shared by a group

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 J. Benton



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

The Blackwell Companion to Hermeneutics Niall Keane, Chris Lawn, 2015-10-19 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. Hermeneutics, the philosophical theory of interpretation, has been one of the most influential strands of European thought over the last two hundred years or more. This comprehensive volume of essays with contributions by many leading experts in the field constitutes an ideal point of entry into the hermeneutic tradition. Its range and level of detail will also appeal to those who wish to advance their knowledge of hermeneutic philosophy and its many important consequences. Peter Dews, University of Essex. The Blackwell Companion to Hermeneutics is a collection of original essays that provides a definitive historical, systematic, authoritative, and critical compendium of philosophical hermeneutics. The volume explores the art and theory of interpretation as it intersects with contemporary philosophical and interdisciplinary schools of thought, including humanism, politics, education, theology, literature, and law. Essays also include cutting-edge discussions of the relation of hermeneutics to the history of philosophy and address the major themes, topics, core concepts, and key figures at the heart of the discipline. The reference features 70 chapters from an international cast of leading and upcoming scholars who offer historically informed, philosophically comprehensive, and critically astute contributions in their individual fields of expertise. In doing so, they identify and enact different aspects of hermeneutical aims and approaches in an attempt to bear witness to both the inherent diversity of hermeneutics and also the constancy and fidelity of its return to history and tradition. Timely

and thought provoking The Blackwell Companion to Hermeneutics is the only comprehensive reference work of its kind and offers a wealth of information for everyone with an interest in hermeneutics

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 2 A novel hierarchical perspective that reveals the underlying mechanisms acting on the patterns of divergence stability and extinction of the units of evolution 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

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

Vertebrate Palaeontology Michael J. Benton, 2014-08-04 Vertebrate palaeontology is a lively field with new discoveries reported every week and not only dinosaurs This new edition reflects the international scope of vertebrate palaeontology with a special focus on exciting new finds from China A key aim is to explain the science Gone are the days of guesswork Young researchers use impressive new numerical and imaging methods to explore the tree of life macroevolution global

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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 Biogeography C. Barry Cox,Peter D.

Moore,2010-05-10 Biologists searching for a resource that explores all of the exciting changes that have occurred recently in the field will turn to this eighth edition It offers insight into the multidisciplinary nature of the field presenting a sound historical base up to date coverage and a look at the latest controversies The authors evaluate conflicting theories and provide a reasoned judgment as to which is preferable In a new chapter the authors examine marine biogeography so that biologists can compare and analyze the data patterns and problems arising from continental marine and island biogeography

Holt Biology Rob DeSalle,Holt Rinehart and Winston,2008 Holt Biology Student Edition 2008 **The Zoological Record** ,1994 **Neues Jahrbuch für Geologie und Paläontologie** ,2004 **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 *Biologist* ,1985

Ecology ,1998 *Abstracts of the Annual Meeting -- American Anthropological Association* American Anthropological Association,2003 *Field Studies* ,1982 The Saunders General Biology Laboratory Manual, 1990 Carolyn Eberhard,1989-12

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