



Exam 3 Animal Diversity

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What are the 3 components of thorax in Insecta?	Prothorax (pro=before), Mesothorax (meso=middle), and Metathorax (meta=after) with each section having a pair of legs.
Where is the location of hindwing (besides in diptera/flyes) in thorax?	In the Metathorax.
What are wings of an insect?	Extension of the exoskeleton (two layered cuticular epidermis).
What do veins provide for wings of Insecta?	Stability and strength for flight.
T/F: Vein patterns are all the same in Insecta.	FALSE: all vein patterns are unique and used for insect identification.
Wing-wise, most insects have....?	2 pairs.
What's the atypical wing organization of Insecta?	Diptera (flies) and Coleoptera (beetles).
What type of atypical wings do Diptera(flies) have?	Only one set of wings.
What type of atypical wings do Coleoptera (beetles) have?	Forewings are thick, and serve as a protective covering (explains why "generally" they are bad fliers).
What is Ovipositor?	A tube-like organ for laying eggs.
What is a cerci (located on posterior end of insect)?	A pair of appendages used in copulation, defense, and/or sensory; sometimes reduced to vestigial structures where structure remains but function is lost.
Where is typical location of Insecta sexual dimorphism?	Reproductive parts.
Name an Insecta body form variation for both land and aquatic:	- Land: thick cuticle/defensive structures. - Aquatic: increased surface area for appendages, streamlined body, and often found on water surfaces, whirligig compound eyes divided into dorsal and ventral.
What is Metamorphosis?	Development from egg to adult through multiple developmental stages (and in between instars 1st/2nd/3rd etc).
What are the 3 types of Metamorphosis?	1.) Ametabolous: Direct development. 2.) Hemimetabolous: Incomplete Metamorphosis. 3.) Holometabolous: Complete Metamorphosis.
What form of Metamorphosis is Ametabolous?	The juvenile stage is morphologically similar to adults with the only major difference being that size and sexual maturity (young cannot reproduce).
What wingless insects undergo Ametabolous?	Thysanura.
What form of Metamorphosis is Hemimetabolous?	Gradual ("incomplete") changes of development where instars lack developed wings; where juvenile groups are referred to as Nymphs.
What types of insects undergo Hemimetabolous?	Egg -> Nymphs(juvenile) -> instars -> Adult (developed wings) Grasshoppers, cicadas, mantids, mayflies, stoneflies, and dragonflies.
What form of Metamorphosis is Holometabolous?	Separating phases of growth (larva), differentiation (pupa), and reproduction (adult). Also referred to as "Complete metamorphosis". Larval stage is wormlike, usually with chewing mouthparts.
What is the pupa stage of Holometabolous (a form of Metamorphosis)?	After the larval developmental stages, an inactive, nonfeeding form where morphological transformation occurs.
What insects undergo Complete Metamorphosis (Holometabolous)?	Bees, beetles, butterflies, and fleas.
Name a painful initiative to defense seen in insecta:	Agression; often accompanied by physical structures (stingers of bees/wasps).
Name a physical defense of the Insecta Class:	Flight/jumping, cilia to sense vibrations, spines, bristles...
What is a chemical defense seen in insecta?	Repellency (stink bugs), Irritants (blister/bombardier beetle), and reflexive bleeding.

Animal Evolution And Diversity Study Guide Answers

George Karleskint



Animal Evolution And Diversity Study Guide Answers:

Animal Evolution NATURAL SCIENCES and MATHEMATICS (500), ZOOLOGICAL SCIENCES (590), 2009-08-13 Animal life now and over the past half billion years is incredibly diverse Describing and understanding the evolution of this diversity of body plans from vertebrates such as humans and fish to the numerous invertebrate groups including sponges insects molluscs and the many groups of worms is a major goal of evolutionary biology In this book a group of leading researchers adopt a modern integrated approach to describe how current molecular genetic techniques and disciplines as diverse as palaeontology embryology and genomics have been combined resulting in a dramatic renaissance in the study of animal evolution The last decade has seen growing interest in evolutionary biology fuelled by a wealth of data from molecular biology Modern phylogenies integrating evidence from molecules embryological data and morphology of living and fossil taxa provide a wide consensus of the major branching patterns of the tree of life moreover the links between phenotype and genotype are increasingly well understood This has resulted in a reliable tree of relationships that has been widely accepted and has spawned numerous new and exciting questions that require a reassessment of the origins and radiation of animal life The focus of this volume is at the level of major animal groups the morphological innovations that define them and the mechanisms of change to their embryology that have resulted in their evolution Current research themes and future prospects are highlighted including phylogeny reconstruction comparative developmental biology the value of different sources of data and the importance of fossils homology assessment character evolution phylogeny of major groups of animals and genome evolution These topics are integrated in the light of a new animal phylogeny to provide fresh insights into the patterns and processes of animal evolution Animal Evolution provides a timely and comprehensive statement of progress in the field for academic researchers requiring an authoritative balanced and up to date overview of the topic It is also intended for both upper level undergraduate and graduate students taking courses in animal evolution molecular phylogenetics evo devo comparative genomics and associated disciplines **Student Study Guide for Biology [by] Campbell/Reece**

Martha R. Taylor, 2002 Marty Taylor Cornell University Provides a concept map of each chapter chapter summaries a variety of interactive questions and chapter tests **Student Study Guide for Biology [by] Campbell/Reece/Mitchell** Martha R.

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Zimmerman, 1963 **Diversity of Life** Cecie Starr, Ralph Taggart, 1998 Diversity of Life covers Unit IV Evolution and Diversity and contains a customized table of contents and the back matter from Biology The Unity and Diversity of Life This volume includes five kingdoms of life presented in an evolutionary framework Descriptions illustrations and life cycles of

representative viruses bacteria protists fungi plants invertebrates and vertebrates are also included Biological Sciences Curriculum Study Journal Biological Sciences Curriculum Study,1978 **Study Guide** George Karleskint,1991

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