



## 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.<br>- 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.<br>2.) Hemimetabolous: Incomplete Metamorphosis.<br>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)<br>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".<br>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

**Martha R. Taylor**



## **Animal Evolution And Diversity Study Guide Answers:**

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regulation ultimately results in cell specific gene expression profiles that define coordinated cell cooperation at the tissue and whole organism levels. However, the diversity and evolutionary dynamics of cell types remain almost completely unexplored beyond selected tissues in a few species, and so it is the gene regulatory networks that define them. Similarly, little is known about the emergence of complex genome regulatory mechanisms that support cell type specific programs and cellular memory, including genome spatial compartmentalization and chromatin dynamics. The advent of low input, highly multiplexed epigenomic and transcriptomic profiling methods, even at single cell resolution, and the broad applicability of these techniques to diverse systems, bypasses the need to obtain large amounts of biological material by culturing or dissecting particular tissues or cell types. This paves the way for the comparative, multi-level analysis of cell differentiation in species and ontogenetic stages that span an unprecedented phylogenetic breadth and represent diverse levels of biological complexity, ranging from unicellular temporal differentiation dynamics and simple multicellular behaviors, as in some protistan eukaryotes, through loosely integrated and limitedly diversified ensembles of cell types, as in early branching animals, to organisms with elaborate tissue and body plan organization, as in bilaterian animals. The comparative approach, through the prism of evolutionary theory and supported by a robust phylogenetic framework, holds the promise of offering far reaching insights into the fundamental principles that govern cell biological systems and the associated molecular mechanisms of genome regulation.

**College Biology II** James Hall Zimmerman, 1963      Ultimate GED Test Prep: Comprehensive Study Guide with 1,000+ Questions Althea Woodard, 2025-04-10

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