

Lecture #12 – Crustaceans & Myriapods

I. Crustacea

- A. Ecologically and economically important
- B. Overall characteristics
 - 1. Compound **stalked eye**
 - 2. **Two** pair of antennae
 - 3. Jointed appendages
 - a. **Biramous** or modified uniramous
 - 1) **Chelipeds**
 - 2) Walking legs
 - 3) **Swimmerets**
 - 4) **Uropod**
 - 4. Chitinous exoskeleton
 - a. **Ecdysis**
 - b. Some with calcified **carapace**
 - 5. Segmented Body
 - a. **Cephalothorax**
 - b. **Abdomen**
- C. Evolutionary Diversity
 - 1. Branchiopoda
 - a. Fairy and Brine Shrimp
 - b. Clam Shrimp
 - c. Water Fleas
 - d. Tadpole Shrimp
 - 2. Maxillopoda
 - a. Ostracods
 - b. Copepods
 - c. Fish Louse
 - d. Barnacles
 - 3. Malacostraca
 - a. Isopods
 - b. Amphipods
 - c. Krill
 - d. Decapods

II. Myriapoda

- A. Loss of compound eyes
- B. Diversity
 - 1. Chilopoda - Centipedes
 - a. Active predators
 - b. **Poison fangs**
 - 2. Diplopoda - Millipedes
 - a. Slow-moving herbivores
 - b. **Diplosegments**
 - 1) **two pair** of legs per segment

Reading: Chapter 13 – pages 245-255.

Questions: Page 277 – 10, 11, 12, 13, 14, 15, 16 (feeding, respiration, sensory reception), and 17.

