

Chapter 18

What are the important distinguishing features of Arthropods? P. 375

How do Arthropods differ from Annelids and how are they alike? P.375

Chapter 19

What are the tagmata and appendages on the head of crustaceans? What other important characteristics of Crustacea distinguish them from other arthropods? p. 387

What is meant by homologous structures? What is meant by serial homology, and how do crustaceans show serial homology? p. 389

Distinguish a hemocoel from a coelom. p. 389-90

Briefly describe respiration and circulation in crayfishes. p. 391

Briefly describe the function of antennal and maxillary glands in Crustacea. p. 391-92

How do crayfish detect changes in position? p. 392

Describe the molting process in Crustacea, including the action of hormones and the process of ecdysis. p. 393-395

Chapter 20

What characteristics of insects distinguish them from all other arthropods? p. 410

Describe the tracheal system of a typical insect and explain why it is able to function efficiently without oxygen-carrying pigments in the hemolymph. Why would a tracheal system not be suitable for humans? p. 417-8