



Discussion Questions

1. List the four major groups of Arthropods.
2. In your own words, define the term “metamorphosis.”
3. List two advantages and two disadvantages of ecdysis (molting)
4. What are the two major types of metamorphoses in insects?
5. Fill in the blank: Most insect species undergo _____ metamorphosis. There are several hormones that regulate the growth of these insects. For each of the following hormones, discuss its role in the molting process:
 - a. Ecdysone (EH)
 - b. Prothoracicotropic Hormone (PTTH)
 - c. Juvenile Hormone (JH)
6. You are working for a chemical company to produce a new chemical to target cockroaches in homes and commercial businesses. You want to create a long-term bait-based insecticide that will prevent cockroaches from reproducing. Assuming you can manufacture the hormone, which hormone would be the best hormone to include in your bait to stop roach reproduction in the long-term? Explain.