June 4 Quiz

Name ­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer **any 2 questions** from each page (for a total of 8 questions answered.)

1. In what ways are sponges more primitive than cnidarians (jellyfish etc)? (2 marks)
2. Why do internal parasites, such as tapeworms, have poorly developed digestive systems? (1 mark) Does this provide an evolutionary advantage? Explain your answer. (4 marks)
3. Why don’t we see a concentration of nerve tissue/brain in the posterior end of an animal’s body? (2 marks)
4. How are leeches adapted to feeding on blood meals? (3 marks)
5. Describe two defense mechanisms of squids. (2 marks)
6. In an attempt to reduce starfish populations, fisherman used to cut up the ones that they caught and throw them back into the water.  Was this an effective method?  Why or why not? (3 marks)
7. Based on a single structural characteristic, what is the easiest way to distinguish an arachnid from an insect (1 mark each)
8. Based on a single structural characteristic, what is the easiest way to distinguish a crustacean (like a crab or lobster) from any other arthropod. (1 mark)
9. Arthropods are well known for some of their adaptations which help them to survive in a particular niche.  Describe one adaptation for each of the following insects that help it survive in its particular niche. (2 marks each)
   1. Butterfly

* 1. Wasp

1. A hard exoskeleton is one of the general characteristics of all arthropods.

a) What would be 2 advantages of having an exoskeleton? (2 marks)

b) What would be 2 disadvantages of having an exoskeleton? (2 marks)

1. What is a Tracheal respiration system? (2 marks) What are its advantages?  
   (2 marks)
2. Some arthropods can be beneficial or useful to their ecosystems or to humans and some could be harmful.  Give two examples of each.  (Try to use Saskatchewan or your own area as the source of your examples.) (4 marks)