

Name: _____ **KEY** _____

Date: _____

Quiz 5

To earn full credit, please answer each question using complete sentences. You can write on the back of the page as needed.

1. We discussed four general characteristics of animals that differ from plants. Describe three of the four characteristics. (3 pts)

Animals are heterotrophs and must eat unlike plants that are autotrophs.

Animals use the protein collagen to support structure of tissues and organs.

Muscle and Nervous tissues are unique to animals.

Animals do not have alternation of generations; reproduction by fusing gametes and forming zygotes that develop through mitosis.

1 pt each

-0.5 if not written in complete sentences.

2. Explain the four body plan types that can be used to classify animals. Which body plan type is common for sessile organisms? (5 pts)

Body plan types include symmetry (radial or bilateral), tissues (Diploblastic or triploblastic), body cavity (acoelomate, pseudocoelomate, coelomate), and developmental plan (protostome or deuterostome). (1 pt for each type including a brief description of the categories under each type; 0.5 pt each if only a list of the plan types.)

Sessile organisms generally have radial symmetry and are diploblastic. (1 pt)

NOTE: Be prepared to provide thorough detail about each characteristic.

3. While looking at some seawater through your microscope, you spot the egg of an unknown animal. Which of the following tests could you use to determine whether the developing organism is a protostome or a deuterostome? See whether the embryo _____. (2 pts)
- develops germ layers
 - exhibits spiral cleavage or radial cleavage**
 - develops a blastopore
 - develops an archenteron