Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Instructions:

-Use the Scantron Form to answer the multiple-choice questions.

-Below: Answer 2 of the 3 short long questions. Also answer 1 of the 2 long response questions.

**SHORT ANSWER QUESTIONS: (choose 2 of the 3 options) 10 pts each.**

**23.**

Describe the process of development of a protostome.

Describe the process of development of a deuterostome.

Explain how they are different and provide an example of each.

---------------------------------------------------------------------------------------------------------------------

**24.**

Describe 3 characteristics of 5 invertebrate groups.

**------------------------------------------------------------------------------------------------------------------**

**25.**

Describe how an organisms body systems are interconnected. Provide 3 examples of body systems and describe how they are interconnected.

**LONG RESPONSE QUESTIONS: Choose 1 of the 2 options (10 pts).**

**26.**

Describe how an action potential is conducted by a nerve cell. Correctly include terms such as dendrite, axon, node of Ranvier, schwann cell, sodium channel, sodium potassium pump, resting potential, membrane potential, depolarization, repolarization, and hyperpolarization.

------------------------------------------------------------------------------------------------------------------

**27.**

Describe the differences between the following:

Central Nervous System and Peripheral Nervous System

Sensory pathways and motor pathways

Sympathetic nervous system and Parasympathetic nervous system